PROPOSED
INTERIM MEASURE/INTERIM REMEDIAL ACTION
DECISION DOCUMENT FOR
THE SOLAR EVAPORATION PONDS
OPERABLE UNIT NO. 4

U.S. DEPARTMENT OF ENERGY

Rocky Flats Plant

Golden, Colorado

September 1991

ENVIRONMENTAL RESTORATION PROGRAM

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EXECUTIVE SUMMARY

This document is the Proposed Interim Measure/Interim Remedial Action (IM/IRA) Decision Document for Operable Unit No. 4 (OU4), the Solar Evaporation Ponds (SEPs). This document was prepared in accordance with the Rocky Flats Interagency Agreement (IAG), dated January 22, 1991, and applicable regulatory guidance documents. This IM/IRA document incorporates the United States Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) comments on the draft IM/IRA Decision Documents dated July 1991 and August 1991.

Approximately 8 million gallons of excess liquids need to be removed from the 207-A and 207-B SEPs before the remaining sludges can be removed for solidification. Natural evaporation of pond liquids accounts for only 2 million gallons per year. Furthermore, water collected by an interceptor trench system (approximately 4 million gallons per year) is currently pumped into the SEPs. Changes to the current operation of the SEPs are required to allow closure and remedial activities to proceed. Specifically, the addition of collected water to the ponds must cease to allow removal of sludge and sediments from the SEPs, an alternate means of storing and treating collected water is needed, and an accelerated means of removing excess pond liquids is required. Additional activities beyond the scope of this IM/IRA, such as removal and solidification of sludges into pondcrete, further investigation, characterization, and remedial activities, will continue to occur at Operable Unit No. 4.

The major components of the selected remedy include:

- The construction and utilization of three temporary surge tanks and associated piping to contain and transfer water collected by the Interceptor Trench System (ITS), and
- Portable flash evaporators and associated tanks to treat excess liquids contained in the 207-A and 207-B SEPs and to treat collected waters.

The selected remedy is expected to pose a minimal risk to the health of workers, the general public, and the environment.

LIST OF APPENDICES

1.0 INTRODUCTION

This document is the Proposed Interim Measure/Interim Remedial Action (IM/IRA) Decision Document for Operable Unit No. 4 (OU4), the Solar Evaporation Ponds (SEPs). This document was prepared in accordance with the Rocky Flats Interagency Agreement (IAG), dated January 22, 1991, and applicable regulatory guidance documents. This IM/IRA document incorporates the United States Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) comments on the draft IM/IRA Decision Documents, dated July 1991 and August 1991.

This IM/IRA document for OU4, the SEPs, is intended to facilitate implementation of the SEPs' RCRA partial closure actions. As such, the IM/IRA is being taken as an enabling activity to facilitate pondcrete operations and site closure. This IM/IRA document is not related to the IM/IRA as referenced in the IAG. The IAG IM/IRA, scheduled in 1994, follows the Phase I RFI/RI report and would be presented only after the RFI/RI was completed and approved. The distinction between this IM/IRA and the IAG IM/IRA are the activities associated with pondcrete operations. Pondcrete operations are addressed in the AIP, not the IAG, and thus this IM/IRA presents information regarding actions necessary before pondcrete operations can continue to be implemented. Thus, the IM/IRA actions are focused only on operations relating to the flash evaporator and surge tank systems. Also, this IM/IRA is a mechanism for permitting the use of the proposed treatment (i.e., use of surge tanks and flash evaporators) as directed by EPA and CDH.

1.1 SITE NAME AND LOCATION

Rocky Flats Plant (USDOE), Golden, Colorado.

1.2 STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected interim remedial action for OU4, the SEPs, which was chosen to permit the required SEP closure activities to proceed, in accordance with the IAG, the Colorado Hazardous Waste Act (CHWA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the

Superfund Amendments and Reauthorization Act (SARA), the Resource Conservation and Recovery Act (RCRA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This decision is based on the administrative record for OU4, the SEPs, and is deemed a necessary component for continued closure activities of the SEPs.

1.3 ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this IM/IRA Decision Document, may present an imminent and substantial endangerment to public health, welfare or the environment.

1.4 IM/IRA PROJECTS

The SEPs are RCRA interim status regulated units that are currently undergoing closure activities. The removal of liquids and sludge is required to fulfill the intent of the Agreement in Principle (AIP), which states in part "several past disposal sites (i.e., solar ponds) on the plant pose a high risk for further spread of contaminants into surface water, ground water and the soil. The.....site(s) require(s) special and accelerated actions by the DOE" (DOE, 1989b).

The objectives of this IM/IRA are to cease the addition of liquids (intercepted water) to the SEPs and to remove excess liquids from the SEPs (207-A and 207-B North, 207-B Center and 207-B South) as expeditiously as possible in order to proceed with closure activities for the ponds consistent with state and federal laws, the IAG, the AIP and the protection of human health and the environment.

1.5 DESCRIPTION OF THE SELECTED REMEDY

The SEPs were formerly used to store and treat liquid process waste. Emplacement of process waste material into these ponds ceased in 1986 due to changes in Rocky Flats waste treatment operations. Present ongoing activities include evaporation of the liquids currently held in the ponds, removal and solidification of pond sludge, and site monitoring and characterization activities. The 207-B ponds (primarily the North impoundment)

continue to be used for storage of intercepted seepage water collected by the Interceptor Trench System (ITS).

Approximately 8 million gallons of excess liquids need to be removed from the 207-A and 207-B ponds before the remaining sludges can be removed for solidification. Pond 207-C is not included in this IM/IRA because the pond does not require dewatering. Natural evaporation of pond liquids accounts for only 2 million gallons per year. Furthermore, water collected by an interceptor trench system (approximately 4 million gallons per year) is currently pumped into the SEPs. Changes to the current operation of the SEPs are required to allow closure and remedial activities to proceed. Specifically, the addition of collected water to the ponds must cease to allow removal of sludge and sediments from the SEPs, an alternate means of storing and treating collected water is needed, and an accelerated means of removing excess pond liquids is required. Additional activities beyond the scope of this IM/IRA, such as the removal and solidification of sludges into pondcrete, further investigation, characterization, and remedial activities, will continue to occur at OU4.

The major components of the selected remedy include:

- The construction and utilization of three temporary surge tanks and associated piping to contain and transfer water collected by the Interceptor Trench System (ITS), and

- Portable flash evaporators and associated tanks to treat excess liquids contained in the 207-A and 207-B SEPs and to treat collected waters.

1.6 DECLARATION

The interim action selected in this IM/IRA Decision Document is protective of human health and the environment, complies with federal and state applicable or relevant and appropriate requirements (ARARs) for this limited-scope action, and is cost-effective. Although this interim action is not intended to address fully the statutory mandate for permanent solutions, to the maximum extent practicable, this interim action does utilize treatment and thus is in furtherance of that statutory mandate. Because this action does not constitute the final remedy for the solar ponds, the statutory preference for remedies that

employ treatment that reduces toxicity, mobility, or volume as the principal element, although partially addressed in this remedy, will be addressed by the final response action. Subsequent actions are planned to address fully the threats posed by the conditions at the solar ponds. Because this is an interim measure/interim remedial action, review of the solar ponds will be ongoing as EPA, CDH and DOE continue to develop final remedial alternatives for the solar ponds under the IAG.

1.7 EPA AND CDH SUPPORT AND ACCEPTANCE OF THE SELECTED REMEDY

The IM/IRA Decision Document shall be final upon conclusion of the 60-day public comment period and EPA and CDH approval.

2.0 SITE CHARACTERIZATION

2.1 SITE NAME, LOCATION AND DESCRIPTION

The Rocky Flats Plant (RFP) is a government-owned and contractor-operated facility. The facility is part of a nationwide nuclear weapons research, development, production and plutonium reprocessing complex administered by the Rocky Flats Operations Office of the DOE. The operating contractor for the RFP is EG&G Rocky Flats, Inc. The facility manufactures components for nuclear weapons and conducts plutonium reprocessing. It has been in operation since 1951. The RFP fabricates components from plutonium, uranium, beryllium, and stainless steel. Historically, production activities have included metal fabrication, machining, and assembly. Both radioactive and nonradioactive wastes are generated in the process. Current waste handling practices involve on-site and off-site recycling of hazardous materials and off-site disposal of solid radioactive materials at another DOE facility.

The RFP is located in northern Jefferson County, Colorado approximately 16 miles northwest of Denver and 9 to 12 miles from the neighboring communities of Boulder, Broomfield, Golden, and Arvada (see Figure 2-1). The immediate area around the RFP is primarily undeveloped and agricultural land. The RFP is bounded on the north by State Highway 128, on the west by a parcel of land east of State Highway 93, on the south by a parcel of land north of State Highway 72, and on the east by Jefferson County Highway 17. Access to the plant is from an east access road exiting from Jefferson County Highway 17, or a west access road exiting from State Highway 93.

The facility is situated at an elevation of approximately 6,000 feet above mean sea level (msl). It is on the eastern edge of a geological bench known locally as Rocky Flats. The bench is approximately 5 miles wide and flanks the eastern edge of the foothills of the Rocky Mountains. The RFP consists of approximately 6,500 acres of federally-owned land in Sections 1 through 4, and Sections 9 through 15 of T2S, R70W, 6th Principal Meridian. Major buildings are located within the RFP Protected Area (PA) of approximately 400

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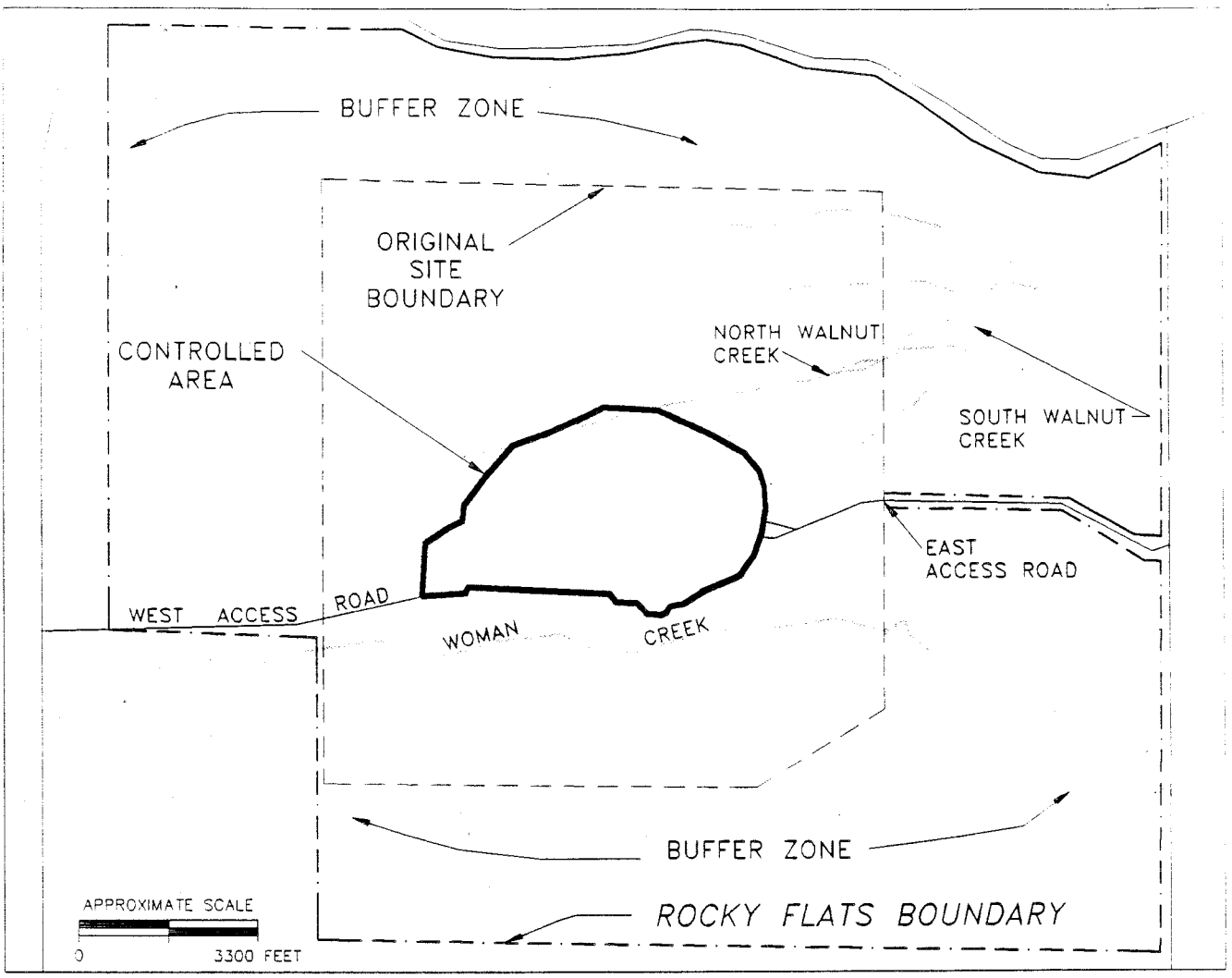


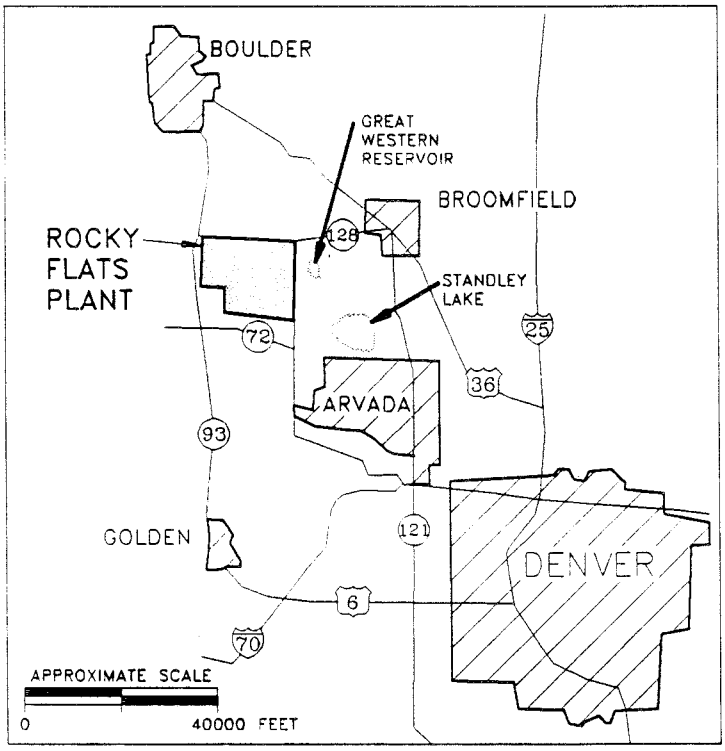


FIGURE 2-1

ROCKY FLATS LOCATION MAP

ADAPTED FROM: FIG. 1-1, E.G. & G. DRAFT GEOLOGIC CHARACTERIZATION REPORT, JAN. 3, 1990.

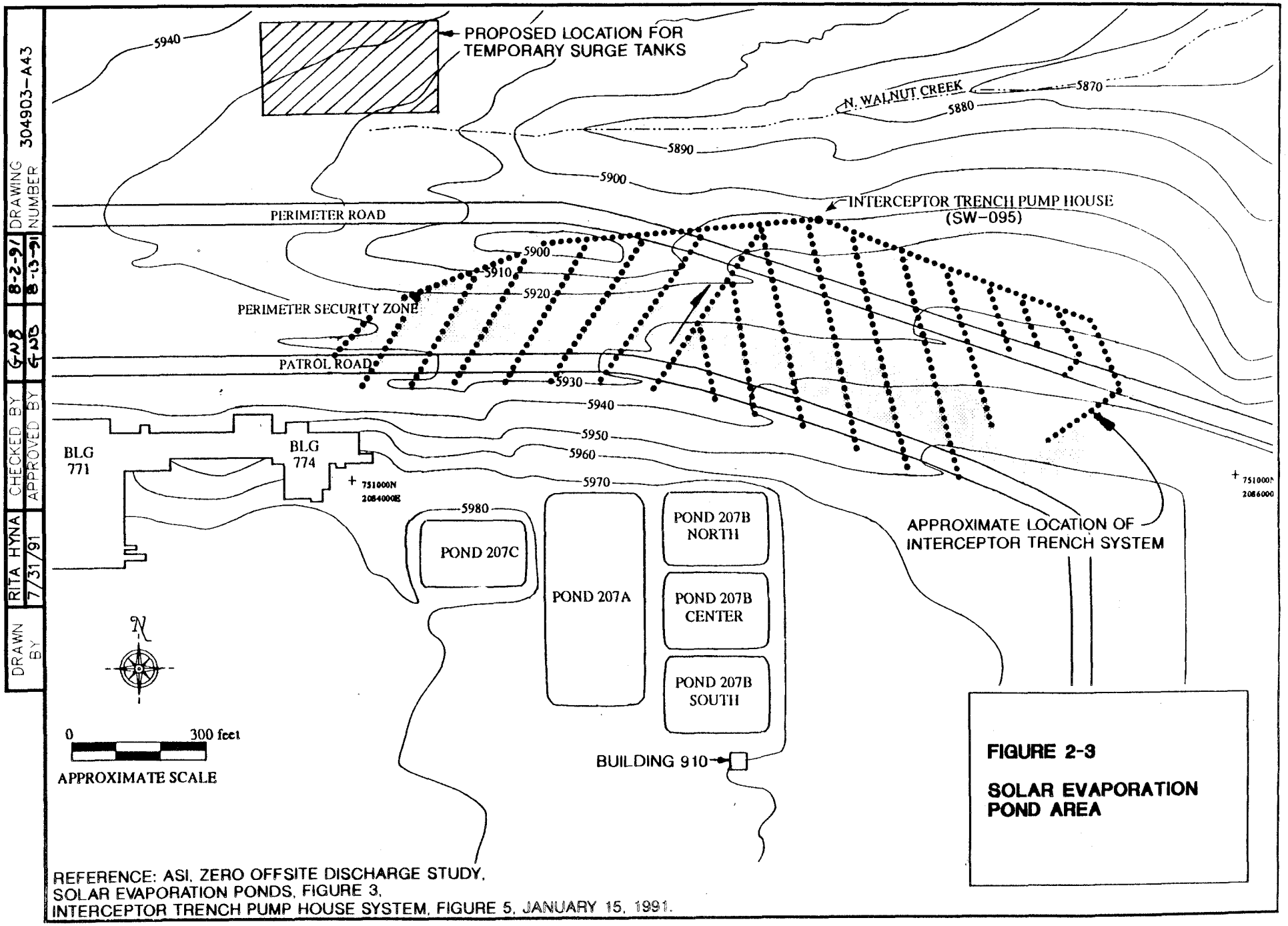
acres. The PA is surrounded by a buffer zone of approximately 6,150 acres. The PA is within the controlled/security area (see Figure 2-2).

The SEPs are located in the central portion of the RFP on the northeast side of the PA. The SEP Waste Management Unit includes Ponds 207-A, 207-B North, 207-B Center, 207-B South, 207-C, and the Interceptor Trench System (ITS) (see Figure 2-3). The SEPs are RCRA interim status regulated units that are currently undergoing closure activities. Activities associated with this IM/IRA would occur totally within the facility boundaries and would be controlled by standard facility procedures in compliance with the appropriate environmental regulations.

The SEPs are currently configured as a series of five evaporation ponds (see Figure 2-3). Pond 207-A was placed into service in August 1956. Ponds 207-B, North, Center, and South were placed into service in June 1960. Pond 207-C was constructed in 1970 to provide additional storage capacity and to allow the transfer and storage of liquids from the other ponds in order to perform pond repair work. These ponds were formerly used to store and treat liquid process waste having less than 100,000 picocuries per liter (pCi/l) of total long-lived alpha activity (DOE, 1980). These process wastes also contained high concentrations of nitrates as well as treated acidic wastes containing aluminum hydroxide. The ponds are also known to have received other wastes, including sanitary sewer sludge, lithium chloride, lithium metal, sodium nitrate, ferric chloride, sulfuric acid, ammonium persulfates, hydrochloric acid, nitric acid, hexavalent chromium, tritium, and cyanide solutions (Rockwell International, 1988).

Sludges from the SEPs have been removed from time to time to implement repair work on the pond liners and as part of routine waste management activities. As the sludges were removed, they were mixed with Portland cement and solidified as a mixture of sludge and concrete (pondcrete) for shipment to an off-site low-level radioactive waste disposal site.

Emplacement of process waste material into these ponds ceased in 1986 because of changes in RFP waste treatment operations. Present ongoing activities include evaporation of the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8-13-91
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PROPOSED LOCATION FOR TEMPORARY SURGE TANKS
N. WALNUT CREEK
INTERCEPTOR TRENCH PUMP HOUSE (SW-095)
PERIMETER ROAD
PERIMETER SECURITY ZONE
PATROL ROAD
5940
5900
5910
5920
5930
5940
5950
5960
5970
5980
5890
5880
5870
BLG 771
BLG 774
751000N
2084000E
751000N
2086000
POND 207C
POND 207A
POND 207B NORTH
POND 207B CENTER
POND 207B SOUTH
APPROXIMATE LOCATION OF INTERCEPTOR TRENCH SYSTEM
BUILDING 910
N
0
300 feet
APPROXIMATE SCALE
REFERENCE: ASI, ZERO OFFSITE DISCHARGE STUDY, SOLAR EVAPORATION PONDS, FIGURE 3, INTERCEPTOR TRENCH PUMP HOUSE SYSTEM, FIGURE 5, JANUARY 15, 1991.
FIGURE 2-3
SOLAR EVAPORATION POND AREA

liquids currently held in the ponds, and site monitoring and characterization activities. The 207-B ponds (primarily the North impoundment) continue to be used for storage of intercepted seepage water collected by the ITS.

Construction of interceptor trenches during the period from October 1971 through April 1974 was initiated to prevent natural seepage and pond leakage from entering North Walnut Creek. This system has been replaced by the current ITS (see Figure 2-3).

The ITS (also known as the French Drain System) was installed in the hillside north of the SEPs. It became active in April 1981 and is currently in use. The depths of the drain system ranges from approximately 1 to 27 feet below the ground surface, with typical depths of 4 to 16 feet (Rockwell International, 1988).

Water collected in the ITS flows by gravity to the interceptor trench pump house (see Figure 2-3). The water from the pump house is currently pumped to Pond 207-B North. The current amount of intercepted seepage collected by the ITS is estimated to be approximately 4 million gallons per year. The maximum amount of water collected in any one week was 700,000 gallons in June 1987 (Rockwell International 1988).

2.1.1 Topography

The RFP is located along the eastern edge of the southern Rocky Mountain region immediately east of the Colorado Front Range. The plant site is located on a broad, eastward sloping pediment that is capped by alluvial deposits of Quaternary age (Rocky Flats Alluvium). The pediment surface has a fan-like form with its apex near the mouth of Coal Creek Canyon and distal margins approximately 2 miles east of the RFP. The tops of alluvial-covered pediments are nearly flat but slope gently eastward at 100 to 50 feet per mile (EG&G, 1991d). At the RFP the pediment surface is dissected by a series of east-northeast trending stream-cut valleys. The valleys containing Rock Creek, North and South Walnut Creeks, and Woman Creek lie 50 to 200 feet below the level of the older pediment surface. These valleys are incised into the bedrock underlying alluvial deposits,

but most bedrock is concealed beneath colluvial material accumulated along the gentle valley slopes.

A topographic map of OU4 (see Figure 2-4) illustrates the area surrounding the SEPs and the proposed location for the temporary surge tanks. The siting for the temporary surge tanks is explained in Section 3.1.2 of this document.

2.1.2 Meteorology

The area surrounding the RFP has a semiarid climate characteristic of much of the central Rocky Mountain region. Based on precipitation recorded between 1953 and 1976, the mean annual precipitation at the plant is 15 inches. Approximately 40 percent of the precipitation falls during the spring season, much of it as wet snow. Thunderstorms (June to August) account for an additional 30 percent of the annual precipitation. Autumn and winter are drier seasons, accounting for 19 and 11 percent of the annual precipitation, respectively. Snowfall averages 85 inches per year, falling from October through May (DOE, 1980).

Winds at the RFP, although variable, are predominantly from the west-northwest. Stronger winds occur during the winter, and the area occasionally experiences Chinook winds with gusts up to 100 miles per hour. The canyons along the Front Range tend to channel the air flow during both upslope and downslope conditions, especially when there is strong atmospheric stability (DOE, 1980).

Rocky Flats meteorology is strongly influenced by the diurnal cycle of mountain and valley breezes. Two dominant flow patterns exist, one during daytime conditions and one at night. During daytime hours, as the earth heats, the mountains receive more direct sunlight than the plain and valleys. The result is a general trend for air flow to travel toward the higher elevation (upslope). The general air flow pattern during upslope conditions for the Denver area is typically north to south, with flow moving up the South Platte River Valley and then entering the canyons into the Front Range. After sunset, the air against the mountain side is cooled and begins to flow toward the lower elevations (downslope).

During downslope conditions, air flows down the canyons of the Front Range onto the plain. This flow converges with the South Platte River Valley flow moving toward the north-northeast.

Temperatures at the RFP are moderate. Extremely warm or cold weather is usually of short duration. On average, daily summer temperatures ranges from 55 to 85 degrees Fahrenheit (°F), and winter temperatures range from 20 to 45 °F. Temperature extremes recorded at the plant range from 102°F on July 12, 1971, to -26°F on January 12, 1963. The 24-year daily average maximum temperature for the period 1952 to 1976 is 76°F, the daily minimum is 22°F, and the average mean is 50°F. Average relative humidity is 46 percent (DOE, 1980).

2.1.3 Nearby Populations, Uses of Adjacent Land and Natural Resources

The population, economics, and land use of the areas surrounding the RFP are described in a 1989 Rocky Flats vicinity demographics report by DOE (DOE, 1990b). This report divides general use of areas within zero to 10 mi (zero to 16 km) of the RFP into residential, commercial, industrial, parks and open spaces, agricultural and vacant, and institutional classification, and considers current and future land use near the plant.

The majority of residential use within 5 miles (8 km) of the RFP is located immediately north and southwest of Standley Lake (IHSS 201). Single family residents are also located immediately east and south of the RFP. Figure 2-5 shows the 1989 population distribution within areas up to 5 miles from the RFP. Commercial development is concentrated near the residential developments north and southwest of Standley Lake, and around the Jefferson County Airport approximately 3 miles (4.8 km) northeast of the RFP. Industrial land use within 5 miles (8 km) of the plant is limited to quarrying and mining operations. Open Space lands are located northeast of the RFP near the City of Broomfield, and in small parcels adjoining major drainages and small neighborhood parks in the cities of Westminster and Arvada. Standley Lake is surrounded by Standley Lake Park. Irrigated and nonirrigated croplands, producing primarily wheat and barley, are located northeast of the RFP near the cities of Broomfield, Lafayette, and Louisville, north of the RFP near

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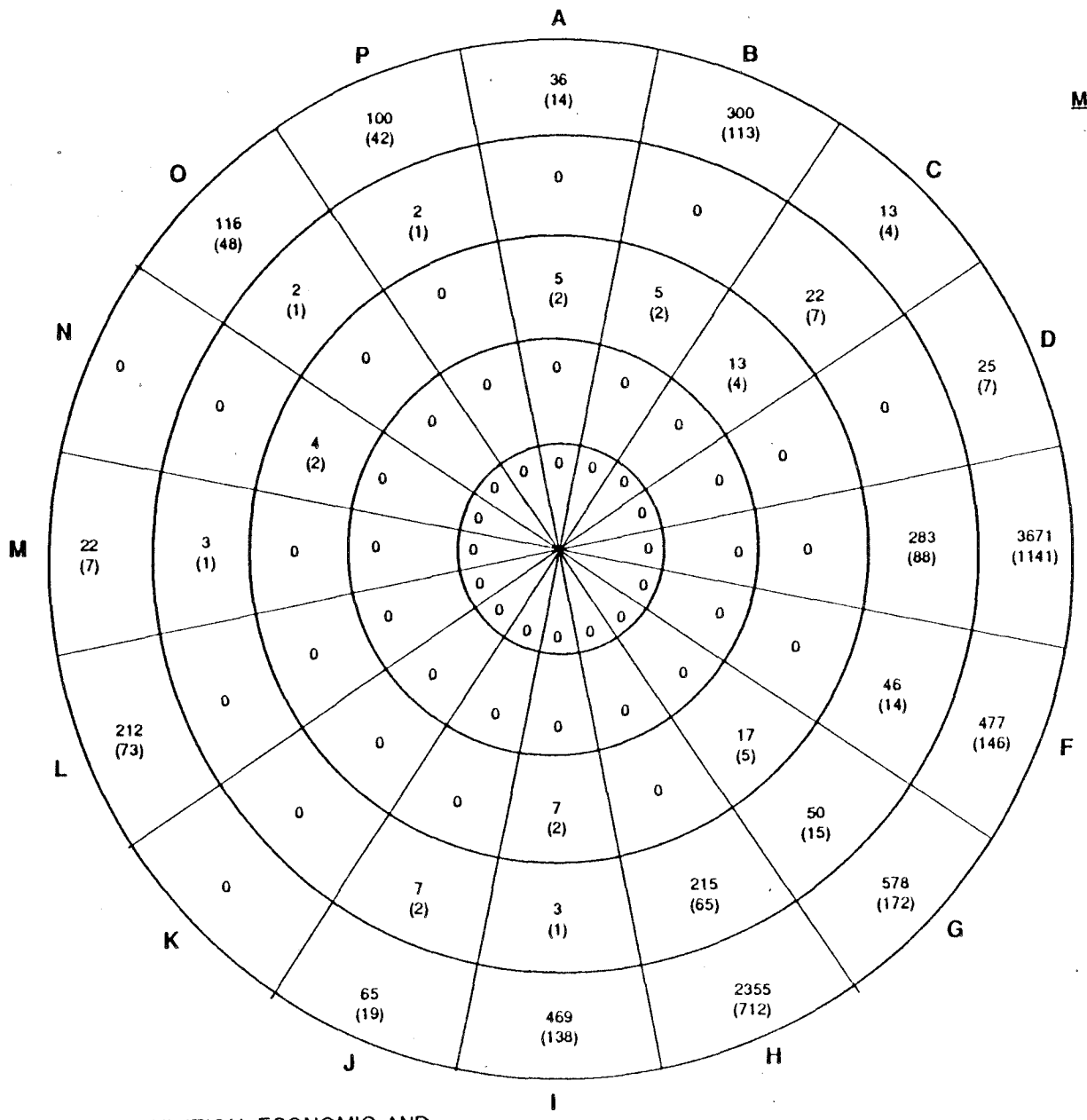


Miles	Sector Name
0-1	Sector 1
1-2	Sector 2
2-3	Sector 3
3-4	Sector 4
4-5	Sector 5

SOURCE: DOE, "1989 POPULATION, ECONOMIC AND LAND USE DATA BASE FOR ROCKY FLATS PLANT", AUGUST 1990.

FIGURE 2-5

1989 POPULATIONS AND (HOUSEHOLDS), SECTORS 1-5

Louisville and Boulder, and in scattered parcels adjacent to the eastern boundary of the plant. Several horse operations and small hay fields are located south of the RFP. The demographics report characterizes much of the vacant land adjacent to the RFP and the reservoirs as rangeland (DOE, 1990b).

This proposed action would be within the existing RFP boundaries and would not adversely impact adjacent agricultural areas or recreation areas. The action would tend to enhance the subsurface environment in the vicinity of the SEPs and limit potentially adverse environmental effects from contaminant migration off-site.

The land use immediately adjacent to OU4 consists of plant process areas and the buffer zone for the facility.

2.1.4 Site and Local Surface Hydrology

Several ephemeral streams flow through the RFP area. Three of these streams (North Walnut Creek, South Walnut Creek, and Woman Creek) originate within the RFP boundary and flow generally eastward from the plant site. The Walnut Creek and Woman Creek drainages within the boundary of the RFP are being investigated under the IAG as OU5 and OU6, respectively. A fourth ephemeral stream, Rock Creek, originates in the Buffer Zone northwest of the main production facility and flows northwest from the RFP (see Figure 2-6). Other surface water features in the vicinity of the plant included a complex network of manmade diversions and impoundments. Flow into and within the surface water features results from direct surface runoff, base flow from ground water, and diversions and wastewater from human-related activities.

Surface water drainage from the SEPs area is toward North Walnut and South Walnut Creeks. A series of retention ponds known as the A-series ponds are located on North Walnut Creek, and a series of retention ponds known as the B-series ponds are located on South Walnut Creek (see Figure 2-6). South Walnut Creek joins North Creek and an unnamed tributary coming from the landfill area, approximately 0.7 mile downstream of

the eastern edge of the plant security area, within the buffer zone. The Walnut Creeks then flow eastward approximately 1 mile to Great Western Reservoir.

North Walnut Creek is an eastward flowing stream located north of the SEPs area. Surface runoff patterns indicate flow enters the drainage from the SEPs area, the 700 Building Complex, the 300 Building Complex, and general surface runoff from the north and west sides of the plant (Rockwell International, 1988).

The A-series ponds on North Walnut Creek are designated A-1, A-2, A-3, and A-4, from west to east. Ponds A-1 and A-2 are used only for spill control, and North Walnut Creek stream flow is diverted around them through an underground pipe. Until 1980, Ponds A-1 and A-2 were used for storage and evaporation of laundry water. Pond A-3 receives the North Walnut Creek stream flow and runoff from the northern portion of the Plant. Pond A-4 is designed for surface water control and for additional storage capacity for overflow from Pond A-3.

The discharge from the ponds are regularly monitored to document compliance with National Pollutant Discharge Elimination System (NPDES) permit requirements. In addition to NPDES monitoring requirements, all discharges are monitored for plutonium, americium, uranium, and tritium concentrations.

2.1.5 Site and Local Hydrogeology

Two hydraulically-connected ground water systems exist in the RFP area: the shallow system which is present is saturated surficial deposits (the upper hydrostratigraphic unit) in many areas of the RFP, and the deeper system in claystones and sandstones of the underlying Arapahoe Formation (the lower hydrostratigraphic unit). The shallow unconfined system is recharged by infiltration from incident precipitation and from surface and base flow water (such as drainages and reservoirs). Ground water flow is generally to the east and toward drainages. Ground water locally discharges as seeps or springs in drainages, especially where the surficial deposit/bedrock contact is exposed. Large water table fluctuations may occur in the shallow system in response to seasonal variations in

recharge and discharge, with the highest water levels generally occurring during the months of May and June and the lowest water levels generally occurring in January and February. As a result of these fluctuations, the lateral and vertical extent of saturated surficial deposits varies seasonally. Recent work has estimated hydraulic conductivities for the RFP geologic units at 10^{-5} cm/sec in the Rocky Flats Alluvium, 10^{-5} cm/sec in subcroppings Arapahoe Formation sandstones, 10^{-6} cm/sec in unweathered Arapahoe Formation sandstones, and 10^{-7} cm/sec in both weathered and unweathered Arapahoe Formation claystones (DOE, 1991e; EG&G, 1991b).

Ground water in the lower hydrostratigraphic unit exists primarily in lenticular sandstone bodies within claystone. Ground water flow in the upper hydrostratigraphic unit occurs in the unconsolidated Quaternary surficial deposits and the shallow sandstone within the bedrock. Recharge to this unit consists of infiltration from streams and precipitation. The lower hydrostratigraphic unit is found in the deeper bedrock sandstones which exhibit confined conditions. Recharge to this unit occur primarily from base flow and leakage from the overlying claystone. Ground water in the lower hydrostratigraphic unit flows east towards a regional discharge area along the South Platte River some 20 miles (32 km) east of the RFP. Local seeps occur along the sides of drainages where the bedrock crops out. Calculated horizontal linear flow velocities for the bedrock system's average 0.1 ft/day (0.03 m/day) in the sandstone and approximately $9x10^{-4}$ ft/day ($2.7x10^{-4}$ m/day) in the claystone.

Ground water generally flows toward the east in the SEPs area in the surficial materials and weathered bedrock portions of the shallow ground water system. In the surficial materials, ground water flow diverges somewhat in two directions: to the northeast toward North Walnut Creek and to the east-southeast toward South Walnut Creek. In weathered bedrock, like surficial materials, ground water flows to the northeast and southeast. This ground water system is locally influenced by topography, the configuration of the top of bedrock, and the ITS north of the ponds. Consistent with regional recharging of the Arapahoe Formation in this locality, it is assumed that ground water flows eastward within the subcropping sandstones.

Estimates of the vertical hydraulic gradient between surficial materials and weathered bedrock revealed downward saturated flow between surficial materials and weathered bedrock. Water levels needed for the calculations were obtained from ground water elevation data measured in 1990. Upward vertical flow has been reported in previous investigations.

The first and third quarters of 1990 represented the high and low flow regimes, respectively, for the vicinity. Alluvial ground water enters the SEPs area from the west and flows east and then northeast or southeast. Downgradient of the ponds to the north, most of the colluvial materials on the hillslope were removed during construction of the ponds and the ITS. Alluvial ground water in this area seeps into weathered bedrock where it is collected by the ITS or consumed by evapotranspiration. North Walnut Creek and the waste management area are separated by a region of unsaturated alluvium or the absence of surficial materials above the water table. Although this region is extensive north of the ponds, flow toward North Walnut Creek is evident northeast of the ponds. Additionally, small regions of absent or unsaturated alluvium are evident west, east, and south of the solar ponds. These regions do not appear to impede ground water flow to the southeast. (DOE, 1991e; EG&G, 1991b).

2.1.6 Ecology

The ecosystems in the RFP area and surrounding region are typical for foothill ravine and high plains portion of Colorado and include aquatic and terrestrial ecosystems. The aquatic ecosystems include perennial and intermittent streams, and manmade ditches, canals, ponds and reservoirs. Terrestrial ecosystems occur on all drainages, slopes, and uplands. Many of the natural ecosystems have been converted to other uses such as commercial and residential development, agriculture and rangeland grazing, and water control and storage. The remaining ecosystems have experienced some effects from surrounding land use and few or no pristine area exist in the vicinity of the RFP. However, some areas within the RFP Buffer Zone have not been disturbed for 20 or more years.

The principal components of the aquatic ecosystems are the periphyton, photoplankton, benthic macroinvertebrates, amphibians, and fish. The type of aquatic communities and diversity of species in each of these components is dependent on the type of substrate, water characteristics (such as depth and flow regime, water quality, creek or pond morphology), water management practices, and season. Fish species are most abundant in the larger ponds and reservoirs, and are mostly absent in the intermittent streams.

Vegetation in the terrestrial ecosystems are representative of high plains and foothill ravine regions, and include native grassland with tall and short prairie grass species and associated shrubs and forbs. Riparian and wetland vegetation occurs along drainages and around springs and seeps. Portions of the grassland and riparian vegetation have been converted to other land uses, and the grasslands have been and are being grazed as rangeland.

None of the vegetative species present at the RFP are reported to be on the endangered species list (DOE, 1991e). Many of the disturbed areas of the RFP have been revegetated since establishment of the plant using native or introduced species.

The fauna inhabiting the RFP area are typical of western prairie regions. The most common large mammal is the mule deer. There are a number of small carnivores, such as the coyote, red fox, striped skunk, and long-tailed weasel. Numerous small herbivores are found throughout the area, including the prairie dog, pocket gopher, white-tailed jackrabbit, and the meadow vole. Birds common to the area include the western meadowlark, horned lark, mourning dove, and vesper sparrow. Killdeer, red-winged blackbirds, and a variety of ducks are seen near ponds. Mallards and other ducks frequently nest and breed on RFP ponds. Birds of prey in the area include the marsh hawk, red-tailed hawk, ferruginous hawk, rough-legged hawk, and great horned owl. Bull snakes and rattlesnakes are the most frequently observed reptiles. Eastern yellow-bellied racers are also observed. The eastern short-horned lizard has been reported on the RFP, but these and other lizards are not commonly observed. The western painted turtle and the western plains garter snake are found in and around ponds in the area (DOE, 1980).

The U.S. Fish and Wildlife Service has indicated that the two endangered species of interest in the RFP are the bald eagle and the black-footed ferret. Prairie dog towns provide the food source and habitat for ferrets. This proposed action would not be expected to affect either species (DOE, 1991b).

2.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

Past and current waste handling practices at the Rocky Flats Plant dictate that environmental restoration at the facility be conducted in accordance with two environmental laws: the Resource Conservation and Recovery Act (RCRA) as amended by the Hazardous and Solid Waste Amendments Act; and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

RCRA regulations apply to currently operating hazardous waste treatment, storage and disposal facilities, and the RCRA corrective action provisions are implemented to remediate releases of hazardous materials from these facilities. CERCLA regulations apply when hazardous materials have been released from abandoned or uncontrolled hazardous waste sites. CERCLA regulations also apply to releases from operating facilities that may pose a threat to human health and/or the environment. Some cleanup areas at the RFP fall under the jurisdiction of both laws.

The SEPs are RCRA interim status regulated units that are currently undergoing partial closure activities. Leakage from the ponds has contaminated soils and ground water with nitrates, heavy metals, and radioactive material. A closure plan submitted to the regulatory agencies on July 1, 1988, called for in-place closure of contaminated liners and subsoils. A proposal was submitted to the regulatory agencies in February 1989 to modify the closure plan for removal of contaminated liners and subsoils to achieve residual contaminant concentrations protective of human health. Closure activities include: dewatering the impoundments; removing, solidifying, and disposing the pond sludges and sediments at the Nevada Test Site; capping the area with a RCRA cap; and collection and treatment of contaminated ground water (Rockwell International, 1988).

This IM/IRA will facilitate the dewatering of the impoundments and allow closure activities to fulfill the intent of the AIP.

2.3 SUMMARY OF CONTAMINANTS ASSOCIATED WITH THIS IM/IRA

The scope of this IM/IRA is limited to the managing and treatment of liquids contained in ponds 207-A, 207-B North, 207-B Center, 207-B South, and the water collected by the ITS. Pond 207-C is not included in this IM/IRA because the pond does not require dewatering.

Detailed characterizations of the pond wastes were performed during 1986, 1987, and 1988. A summary of these characterizations is included in Table 2.1 of this document. Table 2.1 was developed based on information contained in the 1988 SEPs Closure Plan. Details on pond characterizations and complete analytical data can be found in the 1988 SEPs Closure Plan (Rockwell International, 1988). Further characterization of the pond wastes (liquids and sludges) has recently been performed, however, these data were not available at the time of this report.

2.3.1 Pond 207-A

Pond 207-A previously contained liquid with high concentrations of nitrate, metals, and radionuclides that were approximately two orders of magnitude more concentrated than those in Ponds 207-B North and Center. Specifically, Pond 207-A liquid was characterized by high levels of aluminum, chromium, copper, iron, potassium, sodium, nickel, tin, plutonium, americium, uranium, tritium, and nitrates. Pond 207-A liquid was generally more contaminated than Pond 207-C except for plutonium and americium. The liquid had particularly high levels of chromium and nickel and an alkaline pH ranging from 8.3 to 11.0. At present, Pond 207-A is nearly empty and the sludge has been removed. It contains water transferred from the 207-B series ponds, and water derived from incident precipitation (Rockwell International, 1988).

TABLE 2.1
SUMMARY OF POND LIQUID CHARACTERISTICS
(taken from 1988 Solar Evaporation Ponds Closure Plan)

ANALYTE	UNITS	POND 207-A	POND 207-B NORTH	POND 207-B CENTER
pH	--	8.3 - 11.0	7.5-9.6	7.3-11.3
Nitrate as Nitrogen	(mg/l)	ND-21,739	212-1367	ND-1221
Total Dissolved Solids	(mg/l)	127,000	--	--
Cyanide	(mg/l)	ND-1.7	--	--
Gross Alpha	(pCi/l)	32-80,000	13-323	4-2,500
Gross Beta	(pCi/l)	2-40,000	5-200	8-1,500
Plutonium 239	(pCi/l)	0-660	ND	--
Americium 241	(pCi/l)	ND-200	ND	--
Uranium	(pCi/l)	0.69-26,000	--	--
Uranium 233, 234	(pCi/l)	14,000-20,000	50-53	--
Uranium 238	(pCi/l)	21,000-28,000	31-33	--
Tritium	(pCi/l)	240-3,000	1,200-1,300	--
Aluminum	(mg/l)	2.31-2.64	ND-1	ND-2
Arsenic	(mg/l)	0.15	ND	ND
Beryllium	(mg/l)	ND-0.1	ND-0.06	ND
Cadmium	(mg/l)	0.07-0.15	ND-0.01	ND-0.01
Calcium	(mg/l)	ND	20-290	2.9-95
Cesium	(mg/l)	--	ND	ND-0.35
Cobalt	(mg/l)	0.2-0.5	ND	ND
Chromium	(mg/l)	13.7-16.7	ND	ND
Lead	(mg/l)	ND	ND-0.0035	ND-0.002
Magnesium	(mg/l)	ND	66.4-120	3.9-91
Mercury	(mg/l)	ND-0.0002	ND	ND

TABLE 2.1
SUMMARY OF POND LIQUID CHARACTERISTICS
(taken from 1988 Solar Evaporation Ponds Closure Plan)
(continued)

ANALYTE	UNITS	POND 207-A	POND 207-B NORTH	POND 207-B CENTER
Molybdenum	(mg/l)	--	ND-0.0069	0.0035-0.037
Potassium	(mg/l)	13,200-14,300	56.1-120	30-110
Selenium	(mg/l)	ND	ND-0.024	ND-0.019
Silver	(mg/l)	--	ND-0.082	ND-0.015
Sodium	(mg/l)	36,300-42,900	363-820	67-800
Strontium	(mg/l)	--	0.14-3.5	0.14-0.52
Vanadium	(mg/l)	0.1-0.2	ND	ND-0.0081
Tritium	(mg/l)	--	ND-0.069	0.022-0.041
Phenols	(mg/l)	0.013-0.035	0.003-0.046	--

NOTES:

pCi/l = picocuries per liter
mg/l = milligrams per liter
ND = compound was analyzed but not detected.

This table was developed based on information contained in the 1988 Solar Evaporation Ponds Closure Plan. Specifically, this table is a summary of Table II Liquid Characterization Summary 1984-1988, Sheets 1 through 5 (Rockwell International, 1988). Analytical data for Pond 207-B South was not available.

2.3.2 Ponds 207-B North, Center, and South

Ponds 207-B North, Center, and South contained process wastes until 1977 when the ponds were cleaned and the linings replaced. Since 1977 these ponds have held treated sanitary effluent, treated water from the reverse osmosis facility, backwash brine from the reverse osmosis facility, and ground water pumped back from the SEPs' ITS. Ponds 207-B North and Center generally have low concentrations of nitrates, metals, and radionuclides. Nitrate concentrations in the pond liquids were at or below drinking water standards during the same time period (Rockwell International, 1988). All 207-B ponds are currently used to store intercepted water collected by the ITS north of the ponds.

2.3.3 Pond 207-C

Pond 207-C is not included in this IM/IRA because the level and density of the liquids in that pond are already sufficient for solidification into "pondcrete." The following is for informational purposes only.

Pond 207-C was constructed to provide additional storage capacity and to enable the transfer and storage of liquids from the other ponds while the latter were repaired. Pond 207-C contaminants are approximately two orders of magnitude more concentrated than those in Pond 207-B North and Center for nitrate, metals, and radionuclides. Pond 207-C liquid is generally less contaminated than the analyzed liquids in Pond 207-A, except for plutonium and americium, which are approximately ten times higher in Pond 207-C (Rockwell International, 1988).

2.3.4 Interceptor Trench System

The Interceptor Trench System (ITS) was constructed on the hillside north of the SEPs to prevent natural ground water seepage and pond leakage from entering North Walnut Creek. Water collected in the system flows by gravity to the ITS pump house and currently is pumped to the 207-B ponds.

Sampling station SW-095 is located within the wet well of the ITS pump house and is representative of the water quality which is currently pumped to the 207-B ponds. A

summary of ITS water quality is included in Table 2.2. The complete data for SW-095 is included in Appendix A. It should be noted that the ITS data (SW-095) has not been 100% verified. Data validation is currently underway.

Water quality analyses of ITS water indicate the presence of inorganic constituents (particularly nitrate), radionuclides, and sporadic detections of low-level volatile organic compounds. Inorganic constituents and radionuclides are typically present in the general solar pond area and are present in both ground water and seepage flows. Sporadic volatile organic compounds (VOCs) detections are thought to be predominately contributed by flows from the west side of the ITS. (ASI, 1991).

2.4 COMMUNITY PARTICIPATION

In accordance with the Interagency Agreement (IAG), DOE has prepared this IM/IRA Decision Document to allow the public an opportunity to review and comment on the selected remedy.

DOE will open a 60-day comment period. DOE will hold a public hearing on this Proposed IM/IRA Decision Document, if requested to do so by the public, EPA or the State. The Proposed IM/IRA Decision Document is a concise document that (a) indicates the objective of the IM/IRA; (b) discusses the selected remedy; (c) provides the rationale for the selected remedy; (d) presents an ARAR analyses, and; (e) discusses how the interim remedy selected will be consistent with the final remedy for the OU4.

After receipt of EPA, State and/or public comments concerning the Proposed IM/IRA Decision Document, DOE will prepare a Final IM/IRA Decision Document for EPA and State review and approval in accordance with paragraph 150 of the IAG, which will include a response to comments received. DOE will not commence the operation of remedial/corrective activities associated with this IM/IRA until EPA and the State have approved the Final IM/IRA Decision Document and Responsiveness Summary. DOE will

TABLE 2.2
SUMMARY OF SELECT ANALYTICAL DATA (SW-095)
INTERCEPTOR TRENCH SYSTEM WATER

ANALYTE	UNITS	RANGE
Americium -241	pCi/l	ND-2.2
Gross Alpha	pCi/l	40-340
Gross Beta	pCi/l	100-250
Plutonium -239	pCi/l	ND-10
Radium -226	pCi/l	ND-4.4
Radium -228	pCi/l	1.6-5.3
Tritium	pCi/l	1600-3200
Uranium -233, 234	pCi/l	43-122
Uranium -235, 236	pCi/l	2.093
Uranium -238	pCi/l	25-84.8
Nitrate	mg/l	1859-3205
Nitrate/Nitrite	mg/l	190-724
pH	standard units	6.99-7.8
Total dissolved solids	mg/l	1500-4560
Acetone	µg/l	ND-80
Bis(2-ethylhexyl)phthalate	µg/l	ND-24 (B)
Carbon tetrachloride	µg/l	ND-11
Chloroform	µg/l	ND-2 (J)
Diethyl phthalate	µg/l	ND-4 (J)
Di-n-butyl phthalate	µg/l	ND-4 (BJ)
Methylene chloride	µg/l	ND-5 (B)
Pentachlorophenol	µg/l	ND-20 (J)
Trichloroethene	µg/l	ND-5

NOTE: These data have not been 100 percent verified. Validation and QA/QC are currently underway.

pCi/l = picocuries per liter
mg/l = milligrams per liter
µg/l = micrograms per liter
ND = compound was analyzed but not detected.
B = compound was found in the blank and in the sample.
J = indicates an estimated value for an analyte that meets the identification criteria but had a result less than the specified detection limit.

make the EPA and State approved Final IM/IRA Decision Document and Responsiveness Summary available to all interested parties 10 days prior to commencing the operation of remedial/corrective activities associated with the IM/IRA.

The Final Decision Document for this IM/IRA will include deadlines for implementation of the IM/IRA and shall be supported by the Administrative Record. The supporting Administrative Record shall be consistent with CERCLA and shall include, but not be limited to, significant facts and studies supporting the initial decision to conduct this IM/IRA, all comments received concerning the final decision on the action, EPA and State comments concerning the IM/IRA, and the DOE response to those comments.

2.5 SCOPE AND ROLE OF THE IM/IRA

The Solar Evaporation Ponds are currently undergoing partial closure activities. The ponds, except Pond 207-C, currently contain an excess of liquids. Additionally, water collected by the ITS is currently discharged into the 207-B ponds. The ponds must be dewatered to a state which will allow the removal of the sludges for solidification into pondcrete. In order to facilitate the dewatering of the ponds in an expedited fashion the addition of ITS water must cease. Therefore, storage and treatment of the intercepted water and treatment of excess pond liquids must occur in an alternate fashion. The most effective means of storage of the intercepted water is storage in temporary tanks. The most effective means of treatment of the excess pond liquids and the intercepted water is through the use of portable flash evaporators. A complete description of the process is included in Section 3.0 of this document.

This IM/IRA is consistent with the final remedy for the Solar Evaporation Ponds. In fact, if the portable flash evaporators and temporary surge tanks are not installed and operated, the removal and solidification of the sludges into pondcrete cannot occur. The removal of liquids and sludge is required to fulfill the intent of the AIP, which states, "several past disposal sites (i.e., solar ponds) on the plant pose a high risk for further spread of contaminants into surface water, ground water and the soil. The.....site(s) require(s) special

and accelerated actions by the DOE." Such actions will be performed in full compliance with state and federal environmental laws (DOE, 1989b).

2.6 SUMMARY OF SITE RISKS

The OU4 IM/IRA is intended to facilitate implementation of the SEPs' partial closure actions. As such, the IM/IRA is being taken as an enabling activity to facilitate pondcrete operations and site closure. The proposed actions are not being taken in response to Agency guidance which directs interim actions to be taken in response to an immediate site threat to or to take advantage of an opportunity to reduce site risk quickly (EPA, 1991a).

The implications of this determination affect the summary of site risk to be performed below. In a July 12, 1991 letter, CDH and EPA provided guidance to DOE for issuing the Proposed Decision Document for this IM/IRA. This guidance instructed the Summary of Site Risks to "focus on the risks that the interim action is intended to address and should provide rationale for the limited scope of the action." As indicated above, the IM/IRA is not being proposed in response to site hazards. The action is being proposed as an enabling activity to facilitate pondcrete operations and site closure. The Summary of Site Risks will focus on the potential public health and environmental health impacts associated with operation of the flash evaporator system.

A key assumption of this pathway-based qualitative risk assessment is that the ground water pathway is not complete. This is a matter of fact that should be taken into consideration regardless of the presumed efficiency of the collection system (ITS). Specifically, there currently is no human receptor exposed to ground water containing contaminants released from the SEPs. This is because the plume is contained on the RFP. As a result, there are no domestic users of ground water in the vicinity of the SEPs contaminant plume. Additionally, the distance from the SEPs to the nearest potential receptor is very significant which suggests a low probability that contaminated groundwater from the SEPs would be available for a human to access in any reasonable foreseeable time. The readily available source of municipally supplied domestic water in the vicinity

underscores the assessment that exposure to contaminants emanating from the SEPs via a ground water pathway is improbable.

Based on the above argument, assuming 100 percent efficiency of the ITS is less important than the suggestion that the ground water pathway is incomplete. Whatever the ITS efficiency, implementation of the proposed IM/IRA will not significantly alter the ground water pathway relative to potential human exposure. Additionally, future and more detailed risk assessment evaluations both qualitative and quantitative will be performed in the continuing Phase I and Phase II evaluation/investigations of the SEPs (OU4).

2.6.1 Pathway Exposure Assessment

The conceptual environmental exposure pathway for the proposed IM/IRA is provided in Figure 2-7. Pertinent features of the exposure pathway include:

- Case A -- This block model illustrates the primary exposure pathway associated with conditions as they currently exist. This includes two principal exposure pathways. Pathway A1 is the ground water contamination exposure route. As indicated on Figure 2-7, there is no contaminant receptor; rather, ground water is intercepted in the interceptor ditch and returned to the SEPs (Pond 207B). Case A also includes an air pathway (A2) by which compounds can be released from the SEPs and distributed by airborne transport to off-site receptors or to workers. Pathway A2 is considered to be a negligible exposure mechanism because of the (1) very low contaminant concentrations in the pond waters, (2) the small flux of contaminants released from the pond waters, and (3) the large dispersion and dilution factors associated with airborne transport.

- Case B -- Case B conceptually illustrates how the proposed IM/IRA will modify the primary pathway (Case A) through introduction of a secondary pathway. The secondary pathway truncates the recirculation loop and shunts the contaminated ground water from the interceptor ditch to the flash evaporator system. The secondary pathway introduces a new exposure pathway (B1) which originates at the flash tank. Volatile and possibly nonvolatile compounds may be "flashed" (vaporization or particulate aerosolization) as they encounter the pressure differential of the flash tank. Once released, aerosolized compounds can enter the atmosphere by passing through the system vent apparatus. Once in the atmosphere, aerosolized compounds could be transported to off-site receptors or nearby workers by dispersion in the atmosphere.

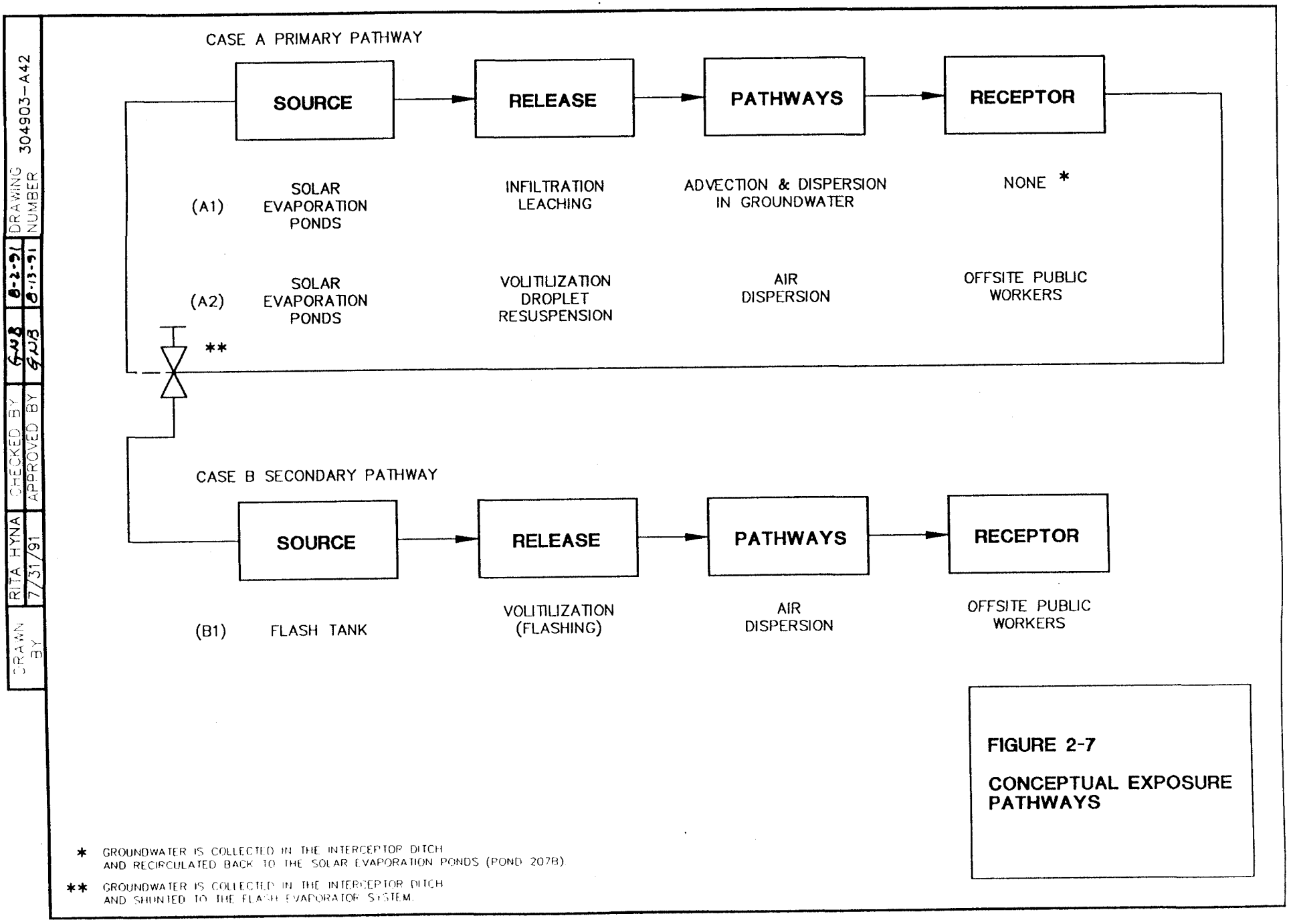


FIGURE 2-7

CONCEPTUAL EXPOSURE PATHWAYS

* GROUNDWATER IS COLLECTED IN THE INTERCEPTOR DITCH AND RECIRCULATED BACK TO THE SOLAR EVAPORATION PONDS (POND 207B).

** GROUNDWATER IS COLLECTED IN THE INTERCEPTOR DITCH AND SHUNTED TO THE FLASH EVAPORATOR SYSTEM.

A very important physical system that is included as a design feature of the IM/IRA that interrupts the secondary pathway is not featured on Figure 2-7. This is a high efficiency particulate air (HEPA) filter on the system vent to remove any aerosolized particulate matter before discharge to the atmosphere.

A review of Figure 2-7 indicates that only pathways A2 and B1 are potentially complete. As discussed above, neither potentially complete pathway is expected to present an appreciable exposure source to the off-site public or workers.

2.6.2 Chemicals of Concern

The SEPs, as indicated on Figure 2-7 are the source of chemical compounds that may enter any of the exposure pathways. Chemicals of concern (COCs) are the compounds that would most likely present significant human health hazards in the event that sufficient exposure conditions and concentrations were met. A review of available analytical data suggests that very few compounds, characteristic of the SEPs, are notably toxic to humans. Additionally, those compounds that could potentially pose a human health threat are generally at very low concentrations. A brief discussion of potential COCs follows.

The potential contaminants of concern for this qualitative assessment can be summarized as: (1) certain radionuclides such as Pu^{-239} and Am^{-241}, (2) certain heavy metals such as beryllium, cadmium and chromium, and (3) a limited number of volatile organic compounds (VOCs) such as carbon tetrachloride and trichloroethylene.

2.6.2.1 Radionuclides

Pu^{-239} and Am^{-241} have been detected in the SEP waters. Aqueous concentrations of Pu^{-239} of 0 to 660 pCi/l have been reported. Am^{-241} has been detected at 200 pCi/l. Additionally, tritium and uranium have been detected in waters from the SEPs.

2.6.2.2 Metals

Metals, including beryllium, cadmium and chromium have been detected in the SEP waters at concentrations greater than background. Aqueous concentrations reported for some metals associated with the solar evaporation ponds are listed below:

Compound	Aqueous (mg/l)
Beryllium	ND to 0.1
Cadmium	0.07 to 0.15
Chromium	13.7 to 16.7
Iron	1.5 to 8.0
Nickel	1.9 to 2.0
Zinc	0.62 to 0.78

2.6.2.3 Organics

Organic chemicals have been reported occasionally in samples (near the detection levels) obtained from the ITS water. The data does not suggest consistent occurrence of organics. Organics reported to occur infrequently that are notable from a human health perspective include carbon tetrachloride and trichloroethylene. Reports of other organics (such as phenols) occur sporadically and are also in low concentrations in the data. This occurrence does not suggest that they should be considered as COCs. Sporadically occurring detections of organics have been used in this risk assessment, therefore this assessment is considered conservative.

2.6.3 Toxicity Assessment

The groups of compounds identified as contaminants of concern have the potential for producing adverse health effects in humans under certain conditions of exposure. A brief summary of the more relevant human toxicity information on the groups of compounds identified as contaminants of concern follows.

2.6.3.1 Radionuclides

EPA regards radionuclides as human carcinogens. Normally, carcinogenicity is the principal human toxicity concern.

2.6.3.2 Metals

Heavy metals, such as those associated with the SEPs, are reported to produce systemic toxic effects in humans. Additionally, EPA regards some heavy metals (e.g., beryllium, cadmium, chromium) as possible human carcinogens.

2.6.3.3 Volatile Organics

VOCs such as those associated with the ITS water, are reported to produce systemic toxic effects in humans. Additionally, EPA regards some VOCs (e.g., carbon tetrachloride and trichlorethylene), as possible human carcinogens.

It should be noted that the potential human health effects identified above are associated with long-term (i.e., chronic) exposure conditions. Additionally, at the exposure conditions suggested by the pathway exposure assessment, human health effects would not be expected.

2.6.4 Risk Characterization

From a qualitative perspective, operation of the flash evaporator system will not appreciably reduce the existing site risks nor will it introduce any additional risks to workers or the off-site public. Observations that support this evaluation are:

- There is no complete ground water pathway (see Figure 2-7). Rerouting contaminated ground water to the flash evaporator system does not affect the risk associated with exposure pathway A1.

- The potentially completed airborne pathway from the SEPs to off-site receptors and workers (exposure pathway A2) will be truncated as a result of implementation of the IM/IRA. This is because, as recirculation of contaminated ground water (back to the SEPs) ceases, the source term (i.e., SEP water) will diminish. As the source term diminishes, the potential for exposure to contaminants through the airborne pathway will also decrease. As noted previously, exposure pathway A2 is considered to be a negligible source of exposure to the off-site public and workers.

- Implementation of the IM/IRA introduces the secondary B2 pathway. Conceptually, this results in a translocation of the exposure pathway A2 to the flash evaporator system vents (see Figure 2-7). As noted previously, exposure pathway A2 is considered to be a negligible source of exposure to the off-site public and workers. The potential risks of this pathway are further reduced by application of the physical systems design feature of the IM/IRA that interrupts the secondary pathway. The HEPA system is capable of an approximately 99.9 percent removal efficiency for aerosolized particulates.

3.0 DESCRIPTION AND ANALYSIS OF SELECTED REMEDY

The selected remedy for this IM/IRA includes the use of temporary surge tanks and portable flash evaporators. The "No Action" alternative was dismissed because the ponds must be dewatered in order to proceed with partial closure activities and final remediation of the ponds. Furthermore, the consequence of the "No Action" alternative is inconsistent with the AIP and IAG. The selected remedy has been analyzed for the criteria contained in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300.430 (e).

3.1 DESCRIPTION OF SELECTED REMEDY

The selected remedy is the use of portable flash evaporators to accelerate the removal of liquids from the 207-A and 207-B SEPs. The portable evaporators are also needed to treat water that is currently discharged into the 207-B Pond from the ITS located north of the ponds. In order to prevent additional accumulation of water in the 207-B Pond, temporary surge tanks will be built in the vicinity of the pond to hold the ITS water before it is sent to the portable evaporators.

Water will be pumped from the ponds and the surge tanks to the three portable evaporators located within a building near the solar ponds (Building 910). The concentrate from the evaporators will be cemented in the pondcrete and/or saltcrete processes to meet the acceptance criteria. Distillate from the evaporators will be discharged into one of the three 7,000-gallon batch tanks for sampling. Section 3.1.1.3 of this document explains the sampling and analytical schedule in detail. Distillate exceeding the allowable TDS limit will be reprocessed. Distillate meeting re-use criteria will be reused as makeup water in the raw water or condensate systems on plant site. A 500,000-gallon tank will serve as a distillate surge tank in case the raw water or condensate systems temporarily have no demand for the distillate.

3.1.1 Treatment System Components

A mechanical/thermal forced evaporation system will be installed which consists of a vapor compression (VC) unit installed in series with a multiple-effect multiple-stage (MEMS) flash evaporator. The VC and MEMS flash evaporator units are closed systems. Therefore hazardous chemical vapors will not be vented into the atmosphere (DOE, 1991c). The system will be operated approximately 100 days in its first year of operation. Trained operators will be in control of the operation at all times.

3.1.1.1 Location and Equipment Description

Building 910, located south of Pond 207-B South, will be used to house the forced evaporation equipment. This building was originally constructed for a reverse osmosis (RO) system to treat RFP sanitary effluent.

The location of Building 910 and its existing tank storage capacity made it the optimal location for the evaporation equipment. Building 910 is a concrete structure with concrete floors and roof. On the main floor of Building 910, there are two rooms that will be used: the Process Room and Chemical Prep/Make-up Room. The lower level (basement) of Building 910 contains holding tanks for the evaporator products. Some equipment in Building 910 is being stripped out to accommodate the evaporation equipment. All existing equipment that will be reused for the evaporation project will be inspected and/or tested.

Main Floor Building 910

Process Room: The Process Room makes up the west part of Building 910. The RO equipment will be removed to provide room for the evaporation equipment. There will be a vapor compression (VC) unit and three multiple-effect, multiple-stage (MEMS) flash evaporators. A natural gas-fired generator located outside Building 910 will provide electrical power to the VC and some ancillary equipment, and exhaust heat to the MEMS. All of the doorways into this room will have berms across them and the floors will be coated to provide secondary containment. See Figure 3-1 for the main floor layout. This area will be equipped with a wet fire suppression system.

Chemical Prep/Make-up Room: The Chemical Prep/Make-up Room makes up the south corner of Building 910. The room contains chemical mixing tanks and will be used for the preparation of scale inhibitor. The west side of this room will also be used for the storage of supplies. The east side of this room will be used as a laboratory, which will consist of radiochemical analysis equipment, pH and nitrate meter, and conductivity meter. The emergency showers and eye wash are located in this room. All of the doorways will have berms across them, and the floors will be coated with a sealant to provide secondary containment. See Figure 3-1 for the main floor lay-out.

Lower Level Building 910

Six existing tanks will be used on this level as temporary holding tanks for the evaporation products. These tanks will be structurally and seismically qualified for the new application. The distillate will be held in Tanks D-2, D-6, and D-7. The concentrate will be held in Tanks D-9 and D-18. Tank D-10 will be used as a surge tank for the condensate system. Pumps for recirculation and transfer of materials will be located on this level. Most of the pumps used will be new. The floor and sump of the lower level will be sealed to serve as secondary containment for all the equipment within the building. The sump will be lined to meet the requirement sof 6 CCR 1007-3 and will be reconfigured, if necessary, to ensure sump liquids are not discharged outside the containment of Building 910. The containment volume will be at least as large as the volume of the largest tank located within Building 910. See Figure 3-2 for the lower level floor lay-out.

Auxiliary Equipment

Each of the 207-A and 207-B Solar Ponds will have a pump inside the berm connected to a double containment pipe with leak detection to supply water to the evaporators.

Tank 215-D, which has a capacity of 500,000 gallons, is located to the west of Building 910, north of Building 928. This tank will be used as a surge tank for the distillate in case the raw water or condensate system temporarily have no demand for the distillate.

Portable cooling towers, which will provide cooling water to the portable evaporation system, will be located outside of Building 910.

3.1.1.2 Process Description

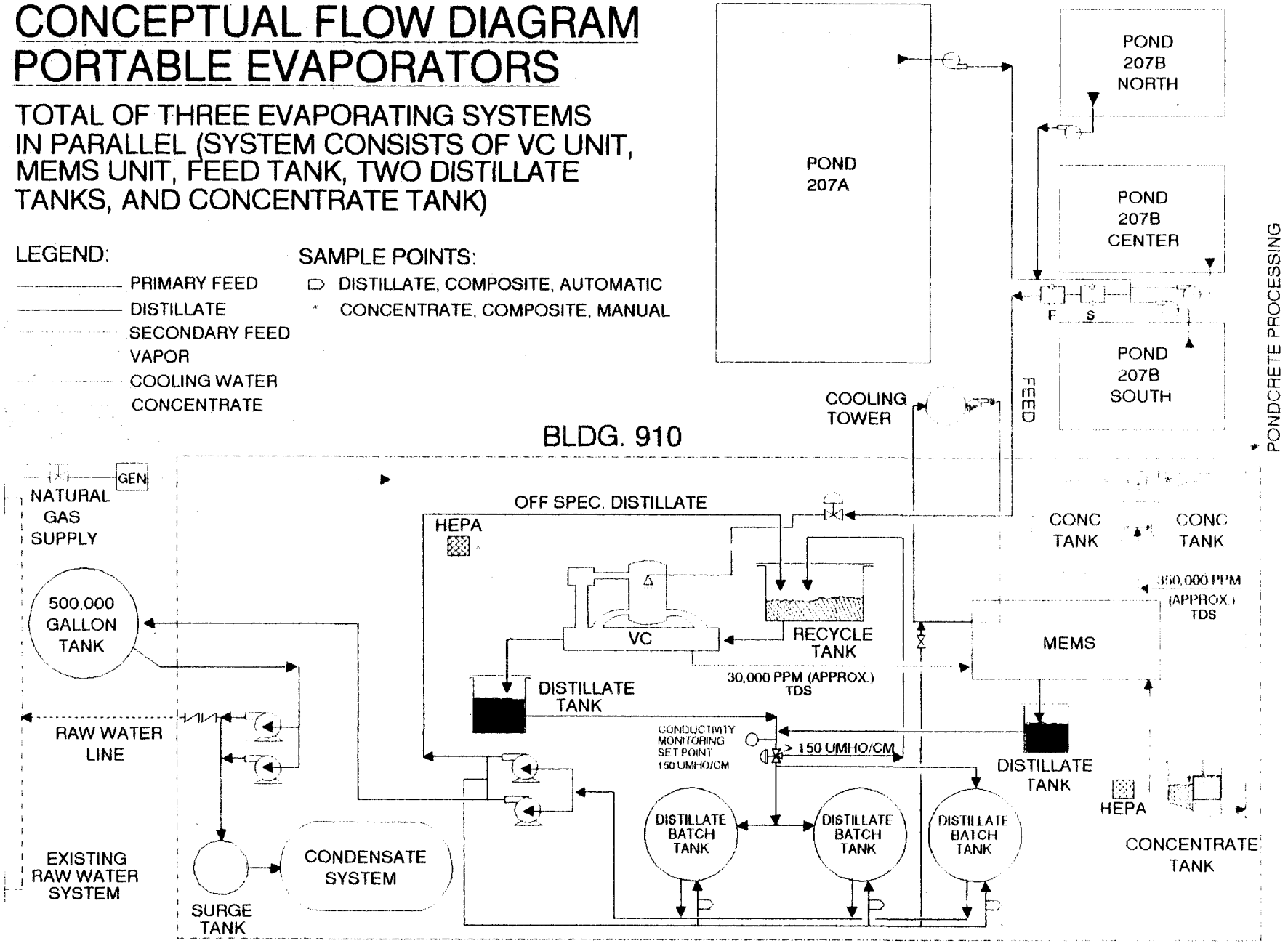
A conceptual flow diagram of the portable evaporators is provided in Figure 3-3. The water from Pond 207-A and Ponds 207-B North, Center, and South and ITS water will be pumped through a manifold station equipped with duplex strainers and duplex filters, via a double-pipe transfer line which will connect to the VC. The brine produced by the VC will be fed to the MEMS flash evaporator.

The distillate will be collected from the VC unit and the MEMS flash evaporator unit into two separate small surge tanks. These distillate tanks must be vented to the atmosphere to allow the process to operate. The distillate will then be discharged through an in-line conductivity tank for reprocessing when the conductivity level exceeds the setpoint of 150 micro mho/cm. When below 150 micro mho/cm, the distillate will be discharged into an approximately 7,000-gallon capacity batch tank. Simultaneously, an automatic composite sampling process will also be initiated. When the accumulated distillate level reaches the high-level setpoint, the composite sample will be sent for laboratory analysis. Section 3.1.1.3 of this document explains the sampling and analytical schedule in detail. Upon receipt of satisfactory test results, (point of compliance verification), the distillate will then be transferred to the 500,000-gallon distillate surge tank. From that tank, the distillate will be injected into the Raw Water System for plant cooling tower usage on a demand basis. The concentrate from the MEMS flash evaporator will be collected in concentrate holding tanks before being transferred to the pondcrete cementation process or Building 374 saltcrete process. A composite sample of the concentrate will be manually collected for analysis.

FIGURE 3-3

CONCEPTUAL FLOW DIAGRAM PORTABLE EVAPORATORS

TOTAL OF THREE EVAPORATING SYSTEMS IN PARALLEL (SYSTEM CONSISTS OF VC UNIT, MEMS UNIT, FEED TANK, TWO DISTILLATE TANKS, AND CONCENTRATE TANK)



Process Performance

Each portable evaporator system (VC unit in series with MEMS flash evaporator) has a designed output of 18,000 gallons per day. There will three identical systems installed in parallel so that an operator can operate any combination of the three systems simultaneously. The system will be capable of producing a product water quality of 150 micro mho/cm or better and a final concentrate with total dissolved solids (TDS) ranging between approximately 300,000 ppm to 400,000 ppm from feed water that has an average TDS of approximately 6,000 ppm.

Logistics of Pond Water Removal

The portable evaporator system will have the capability to treat the water from one pond or a combination of ponds. However, neither treated pond water nor byproduct from the evaporator will be returned to any of the four ponds (except during the initial verification of the evaporators). During initial verification (trial run testing), the water may be discharged to the pond from which it came.

Distillate Disposition Plan

Upon receipt of satisfactory test results, distillate will be held in Tank 215-D (500,000-gallon capacity). From there, the distillate will be pumped into the Raw Water header on a demand basis by a centrifugal pump. The distillate injected into the Raw Water Header will be reused by plant cooling towers.

In the event that plant cooling tower consumption falls below a normal rate, the distillate can be pumped into the condensate return header through the condensate receiver, which is located in Building 910. That will allow the distillate to be discharged into the 300,000-gallon condensate tank located in Building 443 for the use as plant boiler feed. This transfer will interrupt the normal supply of boiler feed water from the Building 374 evaporator until the cooling tower consumption rate returns to normal.

Concentrate Disposition Plan

The concentrate will be collected in the concentrate holding tank and will also be sampled for waste characteristic data before being transferred to the pondcrete cementation process or to the Building 374 saltcrete process.

Flow, Level and Spill Control

The main feed stream, final distillate stream, and the final concentrate streams will be monitored for flow rate and will have a continuous flow indication (or readout) of the total volume transferred. All collection tanks and holding tanks will be equipped with a level control to prevent overflow of liquid. In addition, there will be secondary containment provided to all in-building collection tanks. The 500,000-gallon distillate surge tank will not have secondary containment. However, it will be equipped with a high level alarm and a secondary high level alarm. The high level alarm will cause action on the part of the operators. The secondary high level alarm will automatically shut down the transfer pumps that feed into the 500,000-gallon holding tank.

3.1.1.3 Sampling and Analytical Schedule

The purpose of the sampling plan is to ensure the distillate will be an effective substitute for water used in the raw water system. In addition, since raw water is discharged to the sewage treatment plant after it is used, the sampling must demonstrate that the distillate would have no adverse impact on the quality of the water discharged from the plant. The following sampling plan has been developed to satisfy those objectives.

a. Detailed characterization of pond water was recently performed and the data is currently being reviewed. The parameters sampled were a union of the parameters currently obtained during the monthly sampling of the Building 374 evaporator distillate (which is currently reused in the Building 374 cooling tower) and the sampling of water discharged from the plant.

b. Next, the evaporator's feed and distillate will be sampled during the initial performance verification (trial run testing) of each portable evaporator. The

parameters to be sampled will be based on the results of the pond characterization. Approximately three feed samples and three distillate samples will be obtained during a one-day trial run (approximately 18,000 gallons per day). To determine which ponds need to be included in the initial trial runs, the results of the characterization of each pond will be compared. An initial trial run will be conducted on each pond that contains the highest (worst-case) concentration of each contaminant analyzed during the characterization.

c. If the distillate sampling results are unacceptable, the distillate will be discharged to the pond from which it came, and the evaporation process will be modified to correct the problem. Then additional sampling will be conducted to determine if the modified process provides acceptable distillate. When the distillate sampling results are acceptable, the evaporator will be allowed to operate and discharge to the raw water or condensate system.

d. Thereafter, monthly samples will be obtained from the 500,000-gallon distillate surge tank during operation of the portable evaporators. The parameters to be sampled will be a union of the parameters currently obtained during the monthly sampling of the Building 374 evaporator distillate and any other parameters found to be of concern during the initial verification (trial run testing). If the results show the distillate in the 500,000-gallon tank is unacceptable, the evaporation process will be shut down until the problem is found and corrected. In addition to the aforementioned sampling, the 7,000-gallon batch tanks will be continuously sampled during operation for a limited number of parameters (e.g., pH and nitrates) to help ensure only acceptable distillate is sent to the 500,000-gallon tank. If the distillate in a 7,000-gallon tank is unacceptable, it will be fed back to the evaporator inlet for reprocessing.

Table 3.1 summarizes the process sampling plan.

TABLE 3.1

PROCESS SAMPLING PLAN

Sample/Location	Sampling Method	Frequency	Analytical Requirement
Feed water/solar pond	Per analysis plan	Initial start-up	Per analysis plan
Distillate/upstream of the distillate batch tanks	In-line, automatic	Continuous monitoring	Conductivity (setpoint 150 micro mho/cm)
Distillate/inlet of distillate batch banks	Composite, automatic	Each 7,000-gallon batch	Per analysis plan
Concentrate/concentrate holding tank	Composite, manual	Initial start-up	Per analysis plan
Concentrate/concentrate holding tank	Composite, manual	Routine	Per analysis plan
Distillate/500,000-gallon distillate surge tank	Grab, Monthly	Monthly	Per analysis plan

3.1.1.4 Process Safety Features

Fire Protection and Safety Equipment

There will be a new wet fire suppression system installed to cover the entire building. Approximately five fire extinguisher will be provided through out the entire building. Fire phones, safety shower(s) and eye wash equipment will be located to adequately provide for personnel safety protection.

Alarms

The following is a list of the general types of alarms for both the process and personnel:

Process

- Over temperature alarm(s) - Audible
- High/low level alarm(s)- Audible
- Power overload alarm(s) - Audible
- Loss of vacuum alarm(s) - Audible
- Low flow alarm(s) - Audible
- Conductivity level high alarm(s) - Visual.

Personnel

Fire alarm - Audible

Inspection

Inspection requirements of the facility will comply with the appropriate procedures for operation of the system. Draft procedures will be completed at the completion of equipment installation. Final procedures will be implemented after completion of initial system verification. The tanks, containment systems, and ancillary piping will be inspected daily.

Operating Procedures

Operation of all equipment in this facility will follow the appropriate procedures. The following is a list of draft procedures that will be implemented at the time of the initial system verification test:

- Equipment checkouts/shakedown procedure
- System acceptance test procedure
- Outside equipment operating procedure
- Evaporator operating procedure
- Distillate transfer procedure
- Concentrate transfer procedure
- Chemical make-up procedure
- Air emission monitoring procedure.

Spill Response

The spill response will be in accordance with the plant spill response procedure.

Personnel Training

Rocky Flats personnel will receive the following training in order to operate the evaporator process.

- Industrial Safety
- 40-hour OSHA/Right to Know
- Respirator
- Annual RCRA Training
- On-the-Job training provided by the evaporator manufacturer during the initial trial run.

3.1.2 Storage Components

Water collected by the ITS is currently returned to the 207-B ponds (primarily the North impoundment). To allow pond dewatering to proceed, the ITS water will be held in three temporary surge tanks.

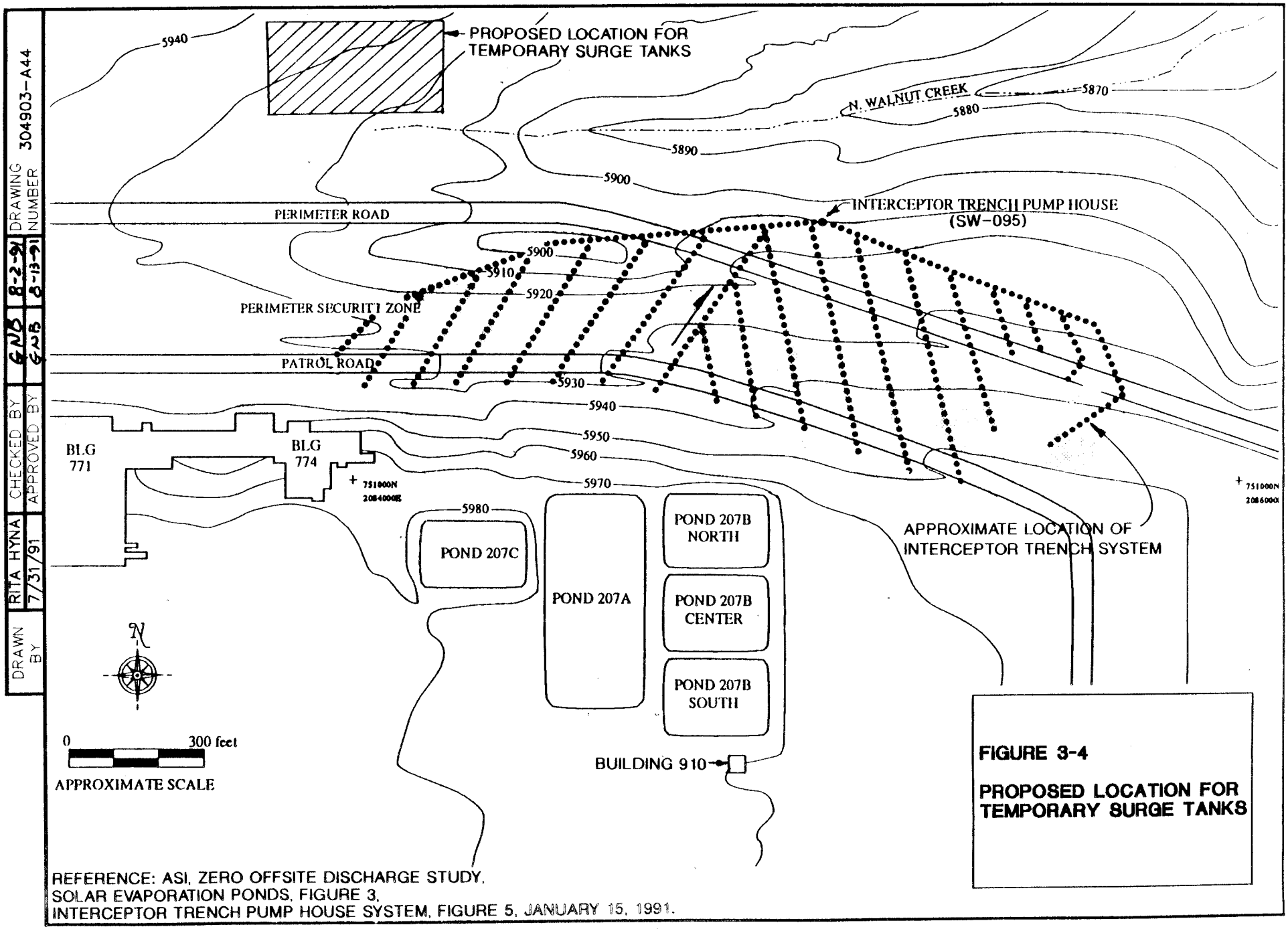


FIGURE 3-4

PROPOSED LOCATION FOR TEMPORARY SURGE TANKS

REFERENCE: ASI, ZERO OFFSITE DISCHARGE STUDY, SOLAR EVAPORATION PONDS, FIGURE 3, INTERCEPTOR TRENCH PUMP HOUSE SYSTEM, FIGURE 5, JANUARY 15, 1991.

3.1.2.1 Location of Tanks

The three temporary surge tanks will be located well within the plant's buffer zone, north of the SEPs (see Figure 3-4).

The proposed site is not located within the 100-year floodplain, wetlands, a saltdome formation, underground cave or mine or within 200 fleet of a fault displaced by a Holocene Fault. The proposed site is not an area of known contamination and is not within a solid waste management unit. Furthermore, the proposed site would have no impact on known archaeological or historic resources and is not expected to affect the black-footed ferret or the bald eagle (DOE, 1991b).

Some excavation and grading may be needed to prepare the site for the temporary tanks. The site will be graded according to specifications. Excavation permits will be reviewed and approved by appropriate environmental management staff prior to any work on this site. Measures will be implemented for erosion control and soil stabilization and to facilitate restoration of the pads after the tanks are removed.

3.1.2.2 Equipment Description

Each tank will have a capacity of approximately 500,000-gallons and will be constructed of galvanized steel and high-density polyethylene (HDPE). Each tank will be approximately 112 feet in diameter with 10 foot galvanized steel sidewalls. The bottom and inner sidewalls will be double-walled with HDPE (see Figure 3-5).

The temporary holding tanks and ancillary equipment will be designed, installed, and operated in accordance with the tank requirements of 6 CCR-1007-3 Part 264, Subpart J. The tank systems will incorporate double-wall containment features and provisions for detection and removal of primary containment leakage (EG&G, 1991a).

The subgrade will be prepared and graded to allow any leakage to be collected at the leak detection sump. Non-earthen base material (i.e., concrete and/or asphalt) will be placed

over the subgrade to provide structural support for the base of each surge tank. A 100-mil geotextile will be placed over the concrete/asphalt base to protect the secondary wall from punctures or abrasions. A 80-mil HDPE secondary wall will then be placed over the geotextile. A HDPE geonet will be placed over the secondary wall to allow any leakage through the primary wall to be immediately collected in the leak detection sump. A 80-mil HDPE primary wall will then be placed over the geonet. In addition, a 20-mil HDPE liner will be placed over the primary wall to protect the primary wall from ultraviolet degradation. The leak detection sump will be located in the middle of each tank and will incorporate below grade piping to a standpipe located outside the tank which will allow the immediate detection of any leakage through the primary wall. The standpipe will be provided with a sensing device. In the event leakage occurs, an alarm will sound in Building 374. Building 374 is continuously manned 24 hours a day.

Water will be pumped from the existing ITS pump house to the tanks and then from the tanks to the portable evaporators via double-walled piping. Above ground piping will be made of polyvinylchloride and underground piping will be made of polyethylene. All exposed portions of the piping will be heat-traced and insulated for freeze protection.

In order to prevent overfilling, each holding (surge) tank will be equipped with a high level and low level alarm. The high level alarm will activate when there is approximately 2 feet of freeboard remaining in the tank(s). The freeboard capacity will allow approximately 15 hours of normal fill time. Upon activation, the high level alarm will automatically shut down the feed pumps and begin pumping excess water to an adjacent surge tank which is not full. In addition, the alarm signal will be sent to Building 374 which is continuously manned 24 hours a day.

3.1.3 General Components

3.1.3.1 Quantity of Waste to be Treated

The largest volume solar evaporation pond (Pond 207-A) contains approximately 3 million gallons of water to be evaporated to allow pondcreting of sludges to occur. The 207-B

ponds contain a total of approximately 5 million gallons of water to be evaporated. The collected ITS water, which will be stored in the temporary surge tanks and will be a continuing source of water, will require treatment through the evaporator system. The average amount of water collected by the ITS over the course of a year is estimated to be 4 million gallons, based on observations made in 1987.

As previously mentioned, each portable evaporator system has a design output of 18,000 gallons per day. Therefore the utilization of all three systems would have a treatment capacity of 54,000 gallons per day.

3.1.3.2 Treatability Testing

Treatability tests were performed using the proposed treatment system by LICON, Incorporated of Pensacola, Florida (LICON, 1990). Due to problems and the complexity of transporting actual solar evaporation pond water to Florida, tests were conducted on simulated pond water. Tests were conducted, with each feed supply prepared to simulate each of the four SEPs. Feed supplies were prepared based on the major ions contained in their respective ponds.

Test results indicated that the 10,000 ppm total dissolved solids feed supply (pond average) could be reduced to 1/50th of its present volume and produce an excellent quality of distillate averaging less than 75 microsiemens (specific conductance). Actual full-scale operations are expected to achieve a high quality distillate having a specific conductance of less than 150 micro mho/cm.

It is important to note that the proposed evaporator system is state-of-the-art technology. Furthermore, a trial run of the installed system will be conducted and evaluated prior to full-scale operations. The trial run period will include extensive sampling and analysis of the distillate to confirm the performance of the treatment system. This trial run and testing will also be used to adjust operations as needed.

3.1.3.3 General Inspections

Inspections of the storage and treatment operations will be conducted in accordance with the applicable requirements of 6 CCR 1007-3 Part 264, standard plant operating procedures, and as needed. Specific inspection schedules and record keeping procedures will be developed and implemented prior to initiating operations. Inspections will be conducted at a frequency which identifies problems in time to correct them, prevents human health and environmental hazards, and ensures safe working conditions.

During operations, daily inspections will include such items as:

- Tank leak detection systems
- Level of water and freeboard in the tanks
- Ancillary equipment
- Above-ground tank equipment (piping, valves, etc.)
- Structural integrity of the tanks
- Area surrounding the tanks
- Loading and unloading areas of hazardous waste.

Other items to be inspected will include, but not be limited to:

- Operating and structural equipment
- Safety and emergency equipment
- Monitoring equipment
- Security devices
- HEPA filters.

3.1.3.4 Management of Waste

As mentioned previously, the concentrate generated by the evaporator system will be collected in the concentrate holding tank and will also be sampled for waste characteristic data before being transferred to either the pondcrete cementation process or to the saltcrete process.

The distillate (water) generated by the evaporator system will not constitute a solid and hazardous waste because it will be used or reused as an effective substitute for a commercial product. Therefore, the distillate is not a waste based on the commercial product exclusion contained in 6 CCR 1007-3 Part 261.2 (e) (ii). The distillate (water) will

be used or reused as an effective substitute for commercially available water that could or otherwise would be purchased from the Denver Water Board (DOE, 1989a).

3.1.3.5 Institutional Controls

This IM/IRA will be conducted entirely within the Rocky Flats site boundary. Since current security controls (i.e., access control, fencing, etc.) do not allow the general public into the area of this IM/IRA, additional institutional controls are not warranted.

3.1.3.6 Assumptions, Uncertainties and Contingencies

As detailed in the process description for the evaporator system, distillate not meeting specified quality requirements will be recirculated for additional treatment. In the event that specific quality requirements are not obtained by the proposed system, additional treatment units will be evaluated and incorporated into the treatment system as needed to meet or exceed performance requirements.

Each temporary surge tank will be equipped with a leak detection system. If a leak is detected it will then be a simple operation to transfer the tank contents to an adjoining tank. In the unlikely event that a catastrophic failure of a tank occurs, the released water would flow into North Walnut Creek. Much of the water would percolate back into the ground water system. The remainder would be contained in Pond A-3 because ponds A-1 and A-2 are not tributary to Walnut Creek. Sampling of Pond A-3 would then occur. If so determined, the water could be collected and transferred to one or both of the remaining tanks or transferred to the SEPs.

3.1.3.7 Closure of IM/IRA Structural Components

It is anticipated that the temporary surge tanks will be utilized into 1995. The temporary tanks will then be replaced by permanent tanks if deemed appropriate. The temporary tanks and ancillary equipment will be closed in accordance with the closure requirements of 6 CCR 1007-3 Part 264, Subpart G.

The evaporator system will be utilized for an unspecified time and will likely be used for many years. The structural components of the evaporator system will be closed in accordance with the final corrective/remedial action decision for OU4.

3.1.4 Costs

The estimated total cost to conduct this IM/IRA is $8,017,000. A breakdown of the estimated capital and operating and maintenance costs associated with this IM/IRA are included in Table 3.2.

3.1.5 Remediation Goals and Performance Standards

The overall goal of this IM/IRA is to remove the liquids from SEPs (207-A, 207-B North, 207-B Center, and 207-B South) as expeditiously as possible in order to be able to remove and solidify the remaining sludges into pondcrete or saltcrete.

An associated goal is to implement a means to store and treat water collected by the ITS which does not include the use of the SEPs.

The proposed site for the three temporary surge tanks complies with all applicable siting criteria. The proposed site for the temporary tanks is not located within the 100-year floodplain, wetlands, a saltdome formation, underground cave or mine or with 200 feet of a fault displaced by a Holocene Fault. The proposed site is not an area of known contamination and is not within a solid waste management unit. Furthermore, the proposed site would have no impact on known archaeological or historic resources and is not expected to affect the black-footed ferret or the bald eagle (DOE, 1991b).

The treatment system has two points of compliance associated with it. One compliance point is where the distillate enters the raw water system, specifically in the 7,000-gallon capacity batch tanks. The other compliance point is where the sludge concentrate enters the pondcrete treatment plant.

TABLE 3.2

ESTIMATED COSTS OF SELECTED REMEDY

Capital Costs	Estimated Costs
Storage Component	
1. Temporary Surge Tanks (3) 500,000 gallons each	$631,000
2. Associated Piping and Equipment	$227,000
3. Site preparation and installation	$378,000
Treatment Component	
1. Flash Evaporators (3) systems	$2,000,000
2. Associated Piping and Equipment	$700,000
3. Site preparation and installation	$1,690,000
Contingency Cost	$1,221,000
Operation & Maintenance Cost (Annual Cost)	
Pumping and Treatment Systems	$1,170,000
FIRST YEAR TOTAL COSTS	$8,017,000

Numerical goals to be attained for the distillate include:

- The maximum contaminant levels (MCLs) as identified in 40 CFR Part 141 Subpart B with the exception of turbidity and microbiological contamination
- The surface water standards for Walnut Creek as identified in 5 CCR 1002-8, Section 3.8.6 (2), Table 2 - Site Specific Radionuclide Standards.

No numerical goals apply to the sludge concentrate. However, the concentrate will be managed within the pondcrete or saltcrete operations in accordance with RCRA regulations for hazardous waste treatment and storage facilities (6 CCR 1007-3 Part 264).

3.1.6 Proposed Schedule of Milestones

The proposed schedule has been established to allow the Department of Energy (DOE) to meet its IAG obligations for Operable Unit 4 and facilitate meeting commitments developed in the AIP. The proposed milestone schedule is provided in Table 3.3.

The proposed schedule will be dependent on comments received by the public, EPA and CDH, and may be affected by unexpected adverse weather conditions and other conditions beyond the control of the contractor.

3.2 ANALYSIS OF SELECTED REMEDY

This section provides an analysis of the selected remedy in accordance with the NCP. The analysis consists of an assessment of nine evaluation criteria.

3.2.1 Overall Protection of Human Health and the Environment

The selected remedy has been assessed to determine whether it can adequately protect human health and the environment, in both the short- and long-term, from unacceptable risks posed by hazardous substances, pollutants, or contaminants present at the site by eliminating, reducing, or controlling exposures to levels consistent with the remediation goals. Overall protection of human health and the environment has considered the assessments of other evaluation criteria, especially long-term effectiveness and permanence, short-term effectiveness, and compliance with ARARs.

TABLE 3.3
MILESTONE SCHEDULE

INTERIM MEASURE/INTERIM RESPONSE ACTION
SEPs
OPERABLE UNIT 4

	Date
Submit Proposed IM/IRA Decision Document to EPA and CDH	Aug. 15, 1991
Public Review of Proposed IM/IRA Decision Document	Sept. 1, 1991
Submit Draft Responsiveness Summary and Final IM/IRA Decision Document to EPA and CDH	Nov. 15, 1991
Begin construction of Treatment and Storage System	TBD
Complete Construction of Treatment and Storage System	TBD
Conduct Trial run of Treatment System	TBD
Begin full-scale operations	TBD

TBD means "to be determined".

A summary of the site risks has been included in Section 2.6 of this document. This section assessed the potential risks to human health as a result of the flash evaporator (treatment) operation. The assessment indicated that the potential risks to the off-site general public and on-site workers would be negligible.

The implementation of this IM/IRA is not expected to pose any adverse effects to the environment. In fact, a consequence of this IM/IRA will allow the removal of potential contamination source material from the SEPs, thereby reducing the potential of further contamination of the underlying soils and ground water.

3.2.2 Compliance with ARARs

The selected remedy has been assessed to determine whether it attains applicable or relevant and appropriate requirements (ARARs) under federal environmental laws and state environmental or facility siting laws or provides the grounds for invoking one of the waivers. The selected remedy will attain identified ARARs. Please refer to Section 4.0 of this document for a detailed discussion of ARARs. No waiver requests are expected at this time.

3.2.3 Long-term Effectiveness and Permanence

The selected remedy has been assessed for the long-term effectiveness and permanence it affords along with the degree of certainty that the remedy will prove successful.

Long-term effectiveness and permanence is a key consequence of the selected remedy. The dewatering of the SEPs will allow the removal and solidification of existing sludge material to occur, thereby allowing closure activities to proceed in an expeditious manner.

The waste remaining after this IM/IRA will be the dewatered sludges left behind in the SEPs. The sludges will then be solidified in accordance with approved pondcrete operations. The removal of the liquids and sludges from the SEPs will benefit ground water quality in the long term, because the contamination sources will be removed.

The proposed treatment system and storage tanks are considered adequate and reliable to meet the objectives of this IM/IRA.

3.2.4 Reduction of Toxicity, Mobility or Volume through Treatment

The degree to which the selected remedy employs recycling or treatment that reduces toxicity, mobility, or volume has been assessed, including how treatment is used to address the principal threats posed by the site.

The proposed mechanical/thermal forced evaporation system will significantly reduce the volume of waste currently contained in the SEPs. Approximately 8 million gallons of liquid will be treated from the ponds. The removal of this liquid will allow the pondcrete process to occur, thereby reducing the mobility of contaminants in the underlying ground water by eliminating the source.

The evaporation system produces a distillate and a concentrate. The distillate produced will be of high water quality, suitable for use in the plant's raw water supply. The volume of waste concentrate produced is estimated to be 1/50 of the present pond volume.

3.2.5 Short-term Effectiveness

The short-term impacts of the selected remedy has been assessed considering potential risks to the general public, workers and the environment.

The potential risks to the general public health and safety during implementation of this IM/IRA are considered minimal.

Volatile chemical emissions from the forced evaporators are expected to be insignificant, because volatile organic concentrations in the ITS water have only been sporadically found near the detection limits. The forced evaporator process will be equipped with HEPA filters thereby precluding the carry-over of radioactive particulate emissions.

The risk of a catastrophic failure of a temporary surge tank is considered minimal. In such an event, contingencies exist to prevent off-site migration of potentially contaminated water.

The potential risks to workers during implementation of this IM/IRA will be minimized to the maximum extent possible. Workers will be trained in and be required to comply with necessary health and safety procedures. Standard operating procedures will be developed for the evaporation process. Personnel protective equipment will be used in accordance with applicable procedures.

The potential environmental risks associated with the implementation of this IM/IRA are considered minimal.

3.2.6 Implementability

The ease or difficulty of implementing the selected remedy has been assessed by considering the technical feasibility, the administrative feasibility, and the availability of services and materials.

The technical feasibility to conduct this IM/IRA is considered very good. The construction and operation of the temporary surge tanks and the evaporator system will follow standard proven practices. Both the storage and treatment systems will be easily monitored to confirm performance. The treatment system can be adjusted or modified as necessary to meet the required performance standards.

No problems are anticipated relating to administrative feasibility of this IM/IRA. The necessary funds are available. Furthermore, this IM/IRA will be conducted entirely on-site.

No problems are anticipated with the availability of the needed services and materials to construct and implement this IM/IRA.

3.2.7 Cost

The types of costs associated with the selected remedy have been assessed.

The costs associated with this action are considered necessary for the protection of human health and the environment, and to meet the intent of the IAG and AIP.

A breakdown of the estimated capital and operating and maintenance costs associated with this IM/IRA have been previously included in Table 3.2.

3.2.8 State Acceptance

The assessment of State concerns will be made following the State's review and comment on this proposed IM/IRA Decision Document.

3.2.9 Community Acceptance

The assessment of community concerns will be made following the public comment period for this proposed IM/IRA Decision Document.

4.0 IDENTIFICATION AND ANALYSIS OF ARARs

4.1 SCOPE OF INTERIM MEASURES/INTERIM REMEDIAL ACTION

The overall objectives of this IM/IRA for the 207 Solar Evaporation Ponds and Interceptor Trench System is to facilitate pondcrete operations and to facilitate the closure of the 207 Solar Ponds. ARARs are used in defining the remediation goals for the interim action.

4.2 COMPLIANCE WITH APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs) AND PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

The NCP [FR Vol 55, No. 46, 8848; 40 CFR 300.430 (e)] requires that, in development of remediation goals, the following be considered:

1. ARARs
2. For systemic contaminants, concentration levels that will not cause adverse effects to the human population and sensitive subgroups over a lifetime of exposure
3. For carcinogens, concentration levels that represent an excess lifetime cumulative individual cancer risk less than 10^{-4} considering multiple contaminants and multiple pathways of exposure
4. Factors related to detection limits
5. For current or potential sources of drinking water, attainment of Maximum Contaminant Level Goals (MCLGs) or Maximum Contaminant Levels (MCLs), if MCLGs are zero
6. Attainment of Clean Water Act (CWA) water quality criteria where relevant and appropriate.

The IAG, in paragraph 150, states "Interim Remedial Actions/Interim Measures shall, to the greatest extent practicable, attain ARARs." Also for interim actions, the NCP [40 CFR 300.430(f)] specifically notes that an ARAR can be waived if the action is to become part of the final remedy that will attain ARARs. It may not be practicable to attain all ARARs for this interim action and ARAR waivers or alternate concentration limits may be requested.

This section identifies and analyzes ARARs relevant to the solar evaporator ponds 207A and 207B and the surface and ground water from the underground interceptor trench system (ITS) and discusses how the action will be protective of human health and the environment. This remedial action is considered an on-site IM/IRA to be administered under RCRA; therefore, both substantive and administrative requirements of the RCRA regulations (such as RCRA permitting requirements) apply. The CERCLA-based ARAR process for this IM/IRA is required under the IAG.

4.2.1 ARARs

"Applicable requirements," as defined in 40 CFR 300.5, means "those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance found at a CERCLA site. Only those state standards that are identified by a state in a timely manner and that are more stringent than federal requirements may be applicable." "Relevant and appropriate requirements," also defined in 40 CFR 300.5, means "those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws, that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well suited to the particular site. Only those state standards that are identified in a timely manner and are more stringent than federal requirements may be relevant and appropriate."

According to CERCLA Section 121(d)(2), in order to be considered an ARAR, a state requirement must be "promulgated". As defined in 40 CFR 300.400(g)(4) of the NCP, the term "promulgated" means that the requirement is of general applicability and is legally enforceable.

4.2.2 TBCs

In addition to ARARs, advisories, criteria, or guidance may be identified to be considered (TBC) for a particular release. As defined in 40 CFR 300.400(g)(3), the "to be considered" (TBC) category consists of advisories, criteria, or guidance developed by EPA, other federal agencies, or states that may be useful in developing remedies. Use of "TBCs" is discretionary rather than mandatory as is the case with applicable or relevant and appropriate requirements.

4.2.3 ARAR Categories

In general, there are three categories of ARARs. These categories are:

- Ambient or chemical-specific requirements
- Location-specific requirements
- Performance, design, or other action-specific requirements.

Each category is discussed in more detail below.

4.3 AMBIENT OR CHEMICAL-SPECIFIC REQUIREMENTS

Ambient or chemical-specific requirements set health- or risk-based concentration limits in various environmental media for specific hazardous substances or pollutants. These requirements set protective clean-up levels for the chemicals of concern in the designated media, or may act as action-related requirements in indicating a safe level of air emission or wastewater discharge. The chemical-specific ARARs identified herein are used in defining the remediation goals for clean up of contaminated surface water and discharge of treated water.

ARARs are derived primarily from federal and state health and environmental statutes and regulations. The following may be considered when establishing clean-up standards, but are not considered ARARs: Health effects assessments, health advisories, chemical advisories, and guidance document criteria. These and any proposed standards are classified as items to be considered, or TBCs. Where background concentrations for constituents are above the ARAR for that constituent, a waiver from the ARAR may be appropriate. A summary of ARARs for the contaminants found in the surface and ground

water of OU4 are presented in Tables 4.1 - 4.3. Table 4.3 presents ARARs for volatile organics, metals, conventional pollutants, and radionuclides and will be applied to operations involving treated water.

As discussed in 55 FR 8741 (Preamble to the NCP), when more than one ARAR has been identified for a contaminant, the most stringent standard has been identified as the ARAR which the IM/IRA will attain to the greatest extent practicable. Where no ARAR standard exists, a TBC standard has been identified which the IM/IRA will treat as a goal to achieve. Federal and state ARAR spreadsheets used in the ARAR analysis for volatile organics, metals, conventional pollutants, and radionuclides are presented in Tables 4.1 and 4.2. The standards identified in Table 4.3 are based on the most stringent standards found in the SDWA MCLs, WQCC state-wide surface water standards, and WQCC site-specific surface water standards for inorganic and metal constituents. As described in Sections 4.3.1 through 4.3.5, the standards mentioned above were found to be applicable or relevant and appropriate to RFP Solar Ponds 207A and 207B and the ITS waters.

The standards and criteria identified as TBC in Table 4.3 are based on the most stringent standards found in RCRA 40 CFR Part 265, Subpart F, WQCC Site-Specific Surface Water Standards for Organics and Radionuclides, the criteria in Tables I, II, and III of 3.1.16 in the Basic Standards for Surface Water, and the WQCC ground water, human health, and agricultural standards. Additionally, CWA AWQC were applied whenever ARARs or more appropriate TBCs were identified. Overall, TBC standards were identified. Overall, TBC standards were identified in Table 4.3 only when no ARAR standards were found.

As presented in Tables 4.1 and 4.2, the ARARs and TBCs summarized in Table 4.1 were developed using the ARARs rationale described above and were identified by examining the following standards and criteria:

- SDWA MCLs
- RCRA 40 CFR Part 264 Subpart F concentration limits
- Colorado WQCC Standards for Surface Water
- Colorado WQCC Standards for Ground Water
- CWA Ambient Water Quality Criteria (AWQC).

4.3.1 Safe Drinking Water Act MCLs

SDWA MCLs represent the maximum permissible level of a contaminant in water that is delivered to the free-flowing outlet of the ultimate user of a public water system [40 CFR 141.2(c)]. The OU 4 water to be treated according to this IM/IRA will be reused as an effective substitute for commercially available raw water. As directed by CDH, OU 4 treated water will be required to meet MCLs because CDH has determined that this water must meet the same water quality (drinking water quality, except for turbidity and microbiological contamination) as water provided from the Denver Water Board (DOE, 1989a). Therefore, MCLs are ARAR. Furthermore, the NCP [40 CFR 300.430(e)] requires that, in development of remediation goals for evaluating alternatives for final remediation, the following be considered for current or potential sources of drinking water: attainment of MCLGs or MCLs, if MCLGs are zero, where relevant and appropriate; and attainment of CWA AWQC, where such criteria are relevant and appropriate. CWA AWQC are discussed in Section 4.3.5. It should be noted that on January 30, 1991, and June 7, 1991, (56 FR 3526 and 56 FR 26460, respectively) EPA published final rules amending MCLs and MCLGs for a number of the constituents identified in Table 4.3. These standards are effective July 30, 1992, and November 6, 1991, respectively, and will be regarded as relevant and appropriate at that time. For purposes of this work plan, the new MCLs (MCLGs are zero or equal to the MCLs, except in the case of copper), are, therefore, proposed TBC and are identified as such in Table 4.3.

4.3.2 RCRA Ground Water Protection Standards

Owners or operators of facilities that treat, store, or dispose of hazardous waste must ensure that hazardous constituents listed in 6 CCR (Colorado Code of Regulations) 1007-3 and 40 CFR 261, Appendix VIII, in the ground water from a regulated unit do not exceed concentration limits under 6 CCR 1007-3 and 40 CFR 264.94. The concentration limits include standards for 14 compounds, with background or alternate concentration limits (ACLs), used as the standard for the other RCRA Appendix VIII constituents. These concentration limits apply to RCRA-regulated units subject to permitting (landfills, surface impoundments, waste piles, and land treatment units) that received RCRA hazardous waste after July 26, 1982. This area does contain RCRA-regulated hazardous waste management

units. As a result, RCRA (Subpart F) regulations are considered ARAR for ground water remediation. These requirements are not applicable or relevant and appropriate with respect to the proposed interim remedial action in that they do not specifically address the collection, treatment, and discharge to surface waters nor are these activities sufficiently similar to the circumstances regulated by the RCRA Subpart F requirements to be relevant and appropriate. RCRA ground water protection requirements relate specifically to protection against degradation of the uppermost aquifer by a solid waste management unit (SWMU) in the case of Corrective Action activities, which clearly do not relate to the collection, treatment, and discharge to surface waters. However, the RCRA ground water requirements do provide an effective mechanism for the protection of the uppermost aquifer and, consequently, potential drinking water sources. Accordingly, since effluent discharges could potentially affect downstream drinking water sources, the Subpart F requirements have been included as TBC for surface water. Background concentrations for 40 CFR 264, Appendix IX constituents not listed in Appendix VIII are also TBC for surface water.

4.3.3 Colorado WQCC Standards for Surface Water

The Colorado WQCC has established both state-wide and stream segment-specific standards for the protection of state surface waters. State-wide standards exist for certain radioactive materials as well as organic standards adopted for all state sources of drinking water and areas requiring protection for aquatic life (see Section 3.1.11, 5 CCR 1002-8). These standards are consequently of general applicability. The state-wide standards are enforceable through the state's NPDES permitting process. Having apparently met the NCP state ARAR requirements of enforceability and general applicability [40 CFR 300.400(g)(4)], the state-wide surface water standards have been applied as ARAR in Table 4.3.

The site-specific stream segment classification relating to the Woman Creek Basin and site-specific inorganic and metal constituent standards have been applied as TBC in Table 4.1 since all segment 5 standards and classifications are goals.

Site-specific surface water standards also exist for certain organic and radioactive constituents. Accordingly, like the WQCC standards discussed above, these standards do not appear to satisfy the NCP requirements for state ARARs since all segment 5 standards and classifications are goals. Also, the organic standards and the radionuclide standards have been adopted only for surface waters at Rocky Flats Plant and so are not of general applicability. The site-specific organic standards are based almost entirely on CWA AWQC for water and fish ingestion. These standards have not been generally applied to the surface waters of Colorado and, in fact, have only been applied to Rocky Flats Plant. Consequently, the site-specific organic chemical and radionuclide surface-water standards cannot be ARAR. These standards have been applied as TBC in Table 4.3 because they reflect the degree of protectiveness determined to be necessary for Rocky Flats Plant surface waters by the Colorado WQCC.

4.3.4 Colorado WQCC Standards for Ground Water

The Colorado WQCC has adopted ground water protection standards for human health and agricultural uses. These standards provide useful guidance for some parameters, such as lithium and vanadium, for which surface water standards do not exist. Accordingly, the human health and agricultural ground water standards have been applied as TBC in Table 4.3.

4.3.5 CWA Ambient Water Quality Criteria (AWQC)

The CWA AWQC are non-enforceable guidance developed under CWA Section 304, and are used by states in conjunction with designated stream segment usages to establish water quality standards for the protection of aquatic life and for the protection of human health. Standards include those established for drinking water and fish consumption, fish consumption only, as well as standards for the protection of aquatic life. CERCLA Section 121(d) requires that CWA AWQC be considered in the development of remediation goals in the FS process, where relevant and appropriate. Relative to this IM/IRA, AWQC may be considered relevant and appropriate. These AWQC require consideration in the development of remediation goals for the IM/IRA and, accordingly, have been identified as TBCs in Table 4.3.

It is important to note, however, as discussed in Section 4.3.3, that the Colorado WQCC has issued standards determined by the state to be appropriate and necessary for the protection of surface water at the Rocky Flats Plant. Although some of the standards are not yet ARAR because they are not yet of general applicability, the existence of WQCC site-specific standards that reflect the specific conditions of site surface waters may result in a determination that other standards of a broader nature are relevant but not appropriate. Consequently, CWA AWQC have been applied as TBC in Table 4.3 only where no other ARAR/TBC was found for a parameter.

4.3.6 Protection of Human Health and the Environment

As illustrated by the hazard quotients and carcinogenic risks listed in Table 4.3, achieving the ARARs should result in a clean-up action that is protective of human health and the environment. For non-carcinogens, the protectiveness goal is a hazard index of 1. The hazard index is the sum of the hazard quotients [i.e., the estimated daily intake (dose) to reference dose ratios] for all of the contaminants combined, which have been computed and are presented in Table 4.3. In assessing non-carcinogenic risk, a hazard index of one or less is considered to be acceptable. If the hazard index exceeds one, it indicates that there might be the potential for adverse non-carcinogenic health effects occurring. Unlike the method used to evaluate the potential for carcinogenic toxicity, the hazard index does not indicate the probability of adverse health effects occurring, but it is used as a benchmark for determining where there is a potential concern. With respect to carcinogens, cumulative cancer risk should be less than 10^{-4} (individual cancer risks shown in Table 4.3 are considered additive). As noted in Table 4.3, the calculated incremental cancer risks exceed 10^{-4} for some of the organic carcinogens as well as for beryllium. However, the cancer risks are computed on the basis of the detection limit and therefore can only be considered a possible maximum carcinogenic risk; the actual risk is unknown but likely to be considerably lower. Removing these contaminants to non-detectable levels and attaining, to the extent practicable, the other ARARs, the IM/IRA is considered protective of human health and the environment.

4.4 LOCATION SPECIFIC REQUIREMENTS

Location-specific ARARs are limits placed on the concentration of hazardous substances or the conduct of activities solely because they occur in certain locations. These may restrict or preclude certain remedial actions or may apply only to certain portions of a site. Examples of location-specific ARARs which pertain to the IM/IRA are federal and state siting laws for hazardous waste facilities (40 CFR 264.18, fault zone and floodplain restrictions), and federal regulations requiring that actions minimize or avoid adverse effects to wetlands (40 CFR Part 6 Appendix A and 40 CFR Parts 230-231).

More specifically, in addition to the requirements described above, pertinent location-specific ARARs include: Colorado requirements for siting of hazardous waste facilities and wastewater treatment facilities (Colorado Revised Statute 25-15-101, 203, 208, 302 and 25-8-292, 702, respectively), National Historic Preservation Act requirements for preservation of significant articles and historic properties (36 CFR Parts 65 and 800, respectively), federal critical habitat protection requirements (50 CFR Parts 200, 402 and 33 CFR Parts 320-330), and federal requirements for the protection of fish and wildlife resources (40 CFR 6.302).

A summary of location-specific ARARs which the IM/IRA will attain to the greatest extent practicable is presented in Table 4.4.

4.5 PERFORMANCE, DESIGN, OR OTHER ACTION SPECIFIC REQUIREMENTS

Performance, design, or other action-specific requirements set controls or restrictions on particular kinds of activities related to management of hazardous substances or pollutants. These requirements are not triggered by the specific chemicals present at a site, but rather by the particular IM/IRA evaluated as part of this plan. Action-specific ARARs are technology-based performance standards, such as the Best Available Technology (BAT) standard of the Federal Water Pollution Control Act. Other examples include RCRA treatment, storage, and disposal standards. Action-specific ARARs, which the IM/IRA will attain to the greatest extent practicable, are included in Table 4.5. Solar pond sludges and precipitate from the Building 910 flash evaporators will be treated under pondcrete

operations. Therefore, RCRA LDR [40 CFR Part 268.40] requirements are not relevant and appropriate to the scope of this IM/IRA.

As explained in the National Contingency Plan (see 55 FR 8666) OSHA requirements for worker protection in hazardous waste operations and emergency response (29 CFR 1910.120) are applicable to workers involved in hazardous substance-related activities, as well as other OSHA requirements related to specific circumstances or activities. These requirements must be satisfied, however, the requirements are not environmental in nature, and therefore are not considered ARARs.

TABLE 4-1 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM STATE SURFACE WATER QUALITY STANDARDS

NOTE: Units are ug/l, unless otherwise specified

		Statewide Standards (a)							Segment 5 Classification and Water Quality Standards (b)(7)				State Ground Water Standards for Human Health/ Agriculture
			Table C		CDH/WQCC Tables I,II,III (9)					CDH/WQCC Stream Segment Table			
Parameter	Type	Tables A,B Carcinogenic/ Noncarcinogenic (2)	Aquatic Acute Value	Life Chronic Value	State-Wide Radionuclide Standards	Acute Value (2)	Chronic Value (2)	Domestic/ Agricultural Std (3)/(6)	Table 1 Additional Organic Chemical Standards	Acute Value	Chronic Value	Table 2 Radionuclides	
Total Dissolved Solids	Indicator												400,000
Bicarbonate	Anion												
Chloride	Anion							250000/		3	3		250,000/
Cyanide	Anion					5	5	1000/200					200/
N as Nitrate+Nitrite	Anion							10000/					/100,000
N as Nitrite	Anion					SS	SS	1000/10000		1,000	1,000		1,000/10,000
Sulfate	Anion							250000/		250,000	250,000		250,000/
Aluminum	Metal					950	150						15,000
Antimony	Metal												
Arsenic	Metal					360	15	50/100		50			50/100
Barium	Metal									1,000			1,000/
Beryllium	Metal							100					1,100
Cadmium	Metal					10.78(1)	1.21(1)	10/10		10.78(1)	1.21(1)		/1,000
Calcium	Metal												
Cesium	Metal												
Chromium	Metal												
Chromium III	Metal					1,850.9(1)	220.6(1)	50/100		50			50/100
Chromium VI	Metal					16	11	50/100		16	11		50/100
Copper	Metal					19.09(1)	12.64(1)	200		19.09(1)	12.64(1)		1,000/200
Iron	Metal						1,000				300 (diss)		300/5,000
Lead	Metal					108.7(1)	4.34(1)	50/100		108.7(1)	4.34(1)		50/100
Lithium	Metal												12,500
Magnesium	Metal												
Manganese	Metal						1,000	50 (dis)/200			50 (diss)		50/200
Mercury	Metal					2.4	0.1		2.0/				2/10
Molybdenum	Metal												

TABLE 4-1 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM STATE SURFACE WATER QUALITY STANDARDS

NOTE: Units are ug/l, unless otherwise specified

		Statewide Standards (a)							Segment 5 Classification and Water Quality Standards (b)(7)				State Ground Water Standards for Human Health/ Agriculture
		Tables A,B	Table C		CDH/WQCC Tables I,II,III (9)				Table 1	CDH/WQCC Stream Segment Table		Table 2	
Parameter	Type	Carcino-genic/ Noncarcin-ogenic (2)	Aquatic Acute Value	Life Chronic Value	State-Wide Radionuclide Standards	Acute Value (2)	Chronic Value (2)	Domestic/ Agricul-tural Std (3)/(6)	Additional Organic Chemical Standards	Acute Value	Chronic Value	Radionuclides	
Nickel	Metal					978.5(1)	101.4(1)	200 ug/l		978.5(1)	101.4(1)		1,200
Potassium	Metal												
Selenium	Metal					135 ug/l	17 ug/l	10/20 ug/l		10 ug/l			10/20
Silver	Metal					TVS	TVS	50/		TVS	TVS		
Sodium	Metal												
Strontium	Metal												
Tin	Metal												
Vanadium	Metal												/100
Zinc	Metal					231.9(1)	45(1)	5000/2000		231.9(1)	45(1)		5,000/2,000
Americium 241	Radionuclide											0.05pCi/l	
Cesium 137	Radionuclide												
Gross Alpha	Radionuclide											11 pCi/l	15pCi/l
Gross Beta	Radionuclide											19 pCi/l	4mrem/yr
Plutonium 238+239+240	Radionuclide				15pCi/l							0.05pCi/l	
Radium 226	Radionuclide												
Radium 228	Radionuclide												
Strontium 89,90	Radionuclide				8pCi/l							8 pCi/l	
Tritium	Radionuclide				20,000pCi/l							500 pCi/l	
Uranium (total)	Radionuclide					2,617.6 ug/l(1)	1,635 ug/l(1)					10 pCi/l	
Uranium 233,234	Radionuclide												
Uranium 235	Radionuclide												
Uranium 238	Radionuclide												
Acetone	Volatile												
Carbon Tetrachloride	Volatile	5	35,200										
Trichloroethylene	Volatile	5	45,000	21,900									

TABLE 4-1 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM STATE SURFACE WATER QUALITY STANDARDS

EXPLANATION OF TABLE

CDH = Colorado Department of Health
TVS = Table Value Standard (hardness dependent), see Table III in (a)
WQCC = Water Quality Control Commission

(1) Calculated using an estimated average hardness of 108.1 mg/l of CaCO , based on the Background Geotechnical Characterization Report, EG&G, 1989.
(2) In the absence of specific, numeric standards for non-naturally occurring organics, the narrative standard is interpreted as zero with enforcement based on practical quantification levels (PQLs) as defined by CDH/WQCC or EPA
(3) All are 30-day standards except for Nitrate & Nitrite.
(4) Standard is for total trihalomethanes: chloroform, bromoform, bromodichloromethane, dibromochloromethane
(6) Ammonia, sulfide, chloride, sulfate, copper, iron, managanese, and zinc are 30-day standards, all others are 1-day standards.
(7) Segment 5 standards are goals
(9) Table I = physical and biological parameters
Table II = inorganic parameters
Table III = metal parameters

Values in Tables I, II, and III for recreational uses, cold water biota and domestic water supply are not included.

(a) CDH/WQCC, Colorado Water Quality Standards 3.1.0 (5 CCR 1002-8) 1/15/1974; amended 9/30/1989
(b) CDH/WQCC, Classifications and Numeric Standards for S. Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin 3.8.0 (5 CCR 1002-8) 4/6/1981; amended 2/15/1990

TABLE 4-2 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM FEDERAL SURFACE WATER QUALITY STANDARDS

NOTE: Units are ug/l, unless otherwise specified

Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a)	CWA AWQC for Protection of Aquatic Life (d)		CWA Water Quality Criteria for Protection of Human Health (d)		RCRA 40CFR Part 264 Subpart F Concentration Limit
				Acute Value	Chronic Value	Water and Fish Ingestion	Fish Consumption Only	
Total Dissolved Solids	Indicator			SS	SS	250,000		
Bicarbonate	Anion							
Chloride	Anion							
Cyanide	Anion			2.2	5.2	200		
N as Nitrate+Nitrite	Anion	10,000(b)	10,000(b)					
N as Nitrite	Anion	1,000(b)	1,000(b)					
Sulfate	Anion							
Aluminum	Metal							
Antimony	Metal			9000	1600	146	45000	
Arsenic	Metal	50				0.0022	0.0175	
Barium	Metal	1,000				1,000		1,000
Beryllium	Metal			130	5.3	0.0068	0.117	5U
Boron	Metal							
Cadmium	Metal	10/5(b)	5(b)	3.9(3)	1.1(3)	10		10
Calcium	Metal							
Chromium	Metal	50/100(b)	100(b)					50
Chromium III	Metal			1,700	210	170,000	3,433,000	
Chromium VI	Metal			16	11	50		
Cesium	Metal							
Copper	Metal		1,300(c)	18(3)	12(3)			46
Iron	Metal				1,000	300		
Lead	Metal	50*	0(c)	82(3)	3.2(3)	50		50
Lithium	Metal							
Magnesium	Metal							
Manganese	Metal					50	100	
Mercury	Metal	2	2	2.4	0.012	0.144	0.146	
Molybdenum	Metal							
Nickel	Metal			1,400(3)	160(3)	13.4	100	18.5
Potassium	Metal							
Selenium	Metal	10/50(b)	50(b)	260	36	10		10

TABLE 4-2 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM FEDERAL SURFACE WATER QUALITY STANDARDS

NOTE: Units are ug/l, unless otherwise specified

Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a)	CWA AWQC for Protection of Aquatic Life (d)		CWA Water Quality Criteria for Protection of Human Health (d)		RCRA 40CFR Part 264 Subpart F Concentration Limit
				Acute Value	Chronic Value	Water and Fish Ingestion	Fish Consumption Only	
Silver	Metal	50	100*	4.1(3)	0.12	50		
Sodium	Metal							
Strontium	Metal							
Tin	Metal							
Vanadium	Metal							1.650
Zinc	Metal			120(3)	110(3)			51.7
Americium 241	Radionuclide							
Cesium 137	Radionuclide							
Gross Alpha	Radionuclide	15 pCi/l						
Gross Beta	Radionuclide	4 mrem/yr						
Plutonium 238+239+240	Radionuclide							
Radium 226	Radionuclide	5					5	
Radium 228	Radionuclide	5					5	
Strontium 89,90	Radionuclide							
Tritium	Radionuclide							
Uranium (total)	Radionuclide							
Uranium 233,234	Radionuclide							
Uranium 235	Radionuclide							
Uranium 238	Radionuclide							
Acetone	Volatile							10U
Carbon Tetrachloride	Volatile	5	0	35,200(1)		0.4**	6.94**	5U
Trichloroethylene	Volatile	5	0	45,000(1)	21,900(1)	2.7**	80.7**	

TABLE 4–2 POTENTIAL CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM FEDERAL SURFACE WATER QUALITY STANDARDS

EXPLANATION OF TABLE

* MCL for lead was deleted in (c), effective November 1992

** Human health criteria for carcinogens reported for three risk levels. Value presented is the 10–5 risk level.

AWQC = Ambient Water Quality Criteria
CWA = Clean Water Act
SDWA = Safe Drinking Water Act
SS = species specific

(1) criteria not developed; value presented is lowest observed effects level (LOEL)
(2) total trihalomethanes: chloroform, bromoform, bromodichloromethane, dibromochloromethane
(3) hardness dependent criteria
(4) pH dependent criteria (7.8 pH used)
(5) Criteria is for dichloroethene

(a) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR 141 and 40 CFR 143 (as of May 1990)
(b) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR Parts 141, 142 and 143, Final Rule (1/30/91), effective July 30, 1992
(c) EPA National Primary Drinking Water Regulations, 40 CFR Parts 141 and 142, Final Rule (6/7/91), effective November 6, 1992
(d) EPA, Quality Criteria for Protection of Aquatic Life, 1986

TABLE 4-3 PROPOSED CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

NOTE: Units are ug/l, unless otherwise specified; Radionuclides are pCi/l

Parameter	Type	Maximum Concentration in Surface Water(1)	ARAR	TBC	ARAR Reference	Comment	Hazard Quotient/ Cancer Risk*
Total Dissolved Solids	Indicator	4,560 mg/l		250 mg/l	CWA AWQC Water and Fish Ingestion Standard is TBC		No oral RFD/not considered an oral carcinogen
Bicarbonate	Anion	350 mg/l			No Standard		No oral RFD/not considered an oral carcinogen
Chloride	Anion	130 mg/l		0.005U mg/l	WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC.	Standard (3.0) is below detection limit. TBC defaults to detection limit.	No oral RFD/not considered an oral carcinogen
Cyanide	Anion	1.7 mg/l		0.005 mg/l	WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC.		HQ < 1.0
N as Nitrate+Nitrite	Anion	620 mg/l		10 mg/l(1)	SDWA MCL [40 CFR 141.51(b)] is TBC		No oral RFD/not considered an oral carcinogen
N as Nitrite	Anion	0.12 mg/l		1 mg/l	WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC.		2.9E-01/not considered an oral carcinogen
Sulfate	Anion	200 mg/l		250 mg/l	WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC.		No oral RFD/not considered an oral carcinogen
Aluminum	Metal	2,000		150	WQCC Surface Water Standard; Aquatic Life Standard is TBC		No oral RFD/not considered an oral carcinogen
Antimony	Metal	142		146	CWA AWQC Water and Fish Ingestion Standard, is TBC		HQ = 1 @ 11 ug/l
Arsenic	Metal	9.2	50		SDWA MCL [40 CFR 141.11(b)]		HQ = 1 @ 35 ug/l
Barium	Metal	202	1,000		SDWA MCL [40 CFR 141.11(b)]		4.1E-01/not considered an oral carcinogen
Beryllium	Metal	100		5U	RCRA 40 CFR Part 264 Subpart F is TBC	Beryllium is 40 CFR Part 261 Appendix VIII constituent. Background is TBC.	2.9E-02/8.4E-05
Cadmium	Metal	6	10	5(2)	SDWA MCL [40 CFR 141.11(b)]		2.9E-01/not considered an oral carcinogen
Calcium	Metal	462 mg/l			No Standard		No oral RFD/not considered an oral carcinogen
Cesium	Metal	50			No Standard		
Chromium	Metal	30.30	50		SDWA MCL [40 CFR 141.11(b)]	Analytical result is total chromium	No oral RFD/not considered

TABLE 4-3 PROPOSED CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

NOTE: Units are ug/l, unless otherwise specified; Radionuclides are pCi/l

Parameter	Type	Maximum Concentration in Surface Water(1)	ARAR	TBC	ARAR Reference	Comment	Hazard Quotient/ Cancer Risk*
							an oral carcinogen
Chromium III	Metal	----		50	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.	Analytical result is total chromium	1.4E-03/not considered an oral carcinogen
Chromium VI	Metal	----		11	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.	Analytical result is total chromium	1.6E-02/not considered an oral carcinogen
Copper	Metal	308		25U	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.	Standard (12.6ug/l)(3) is below detection limit. ARAR defaults to detection limit.	No oral RFD/not considered an oral carcinogen
Iron	Metal	1,550.00		1,000(300)	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.	Dissolved iron in parentheses.	No oral RFD/not considered an oral carcinogen
Lead	Metal	3.6	50	5U(4)	SDWA MCL [40 CFR 141.11(b)]	Standard (4.34ug/l)(3) is less than detection limit. ARAR defaults to detection limit.	No oral RFD/not considered an oral carcinogen
Lithium	Metal	84.10 mg/l		2,500	WQCC Ground Water Standard; Agricultural Standard is TBC		No oral RFD/not considered an oral carcinogen
Magnesium	Metal	140 mg/l			No Standard		No oral RFD/not considered an oral carcinogen
Manganese	Metal	81		1,000(50)	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.	Dissolved manganese in parentheses.	2.9E-01(1.4E-02)not considered an oral carcinogen
Mercury	Metal	0.4	2		SDWA MCL [40 CFR 141.11(b)]		HQ = 1 @ 11 ug/l
Molybdenum	Metal	59.4			No Standard		HQ = 1 @ 140 ug/l
Nickel	Metal	30.7		101.4(3)	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.		1.4E-01/not considered an oral carcinogen
Potassium	Metal	656 mg/l			No Standard		No oral RFD/not considered an oral carcinogen
Selenium	Metal	17.0	10		SDWA MCL [40 CFR 141.11(b)]		No oral RFD/not considered an oral carcinogen
Silver	Metal	82	50		SDWA MCL [40 CFR 141.11(b)]		
Sodium	Metal	2,300 mg/l			No Standard		No oral RFD/not considered an oral carcinogen
Strontium	Metal	3,870			No Standard		No oral RFD/not considered

TABLE 4-3 PROPOSED CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

NOTE: Units are ug/l, unless otherwise specified; Radionuclides are pCi/l

Parameter	Type	Maximum Concentration in Surface Water(1)	ARAR	TBC	ARAR Reference	Comment	Hazard Quotient/ Cancer Risk*
							an oral carcinogen
Tin	Metal	155			No Standard		
Vanadium	Metal	8.4		100	WQCC Ground Water Standard; Agricultural Standard is TBC		4.1E-01/not considered an oral carcinogen
Zinc	Metal	116		45	WQCC Surface Water Standard; Site-Specific Metal Standard is TBC.		6.4E-03/not considered an oral carcinogen
Americium 241	Radionuclide	650		0.05 pCi/l	WQCC Surface Water Standard; Site-Specific Radionuclide Standard is TBC		No oral RFD/3.3E-07
Cesium 137	Radionuclide	0.2+/-0.5			No Standard		/170 ug/l=1E-4 Risk
Gross Alpha	Radionuclide	56,000	15 pCi/l		SDWA MCL [40 CFR 141.15(b)]		No oral RFD/NA
Gross Beta	Radionuclide	27,000	4 mrem/yr		SDWA MCL [40 CFR 141.16]		No oral RFD/NA
Plutonium 239	Radionuclide	240	15 pCi/l		WQCC Surface Water Standard; State-Wide Radionuclide Standard		No oral RFD/8.8E-05
Radium 226	Radionuclide	4.4+/-0.8	5 pCi/l		SDWA MCL [40CFR 141.15(a)]	SDWA MCL is for Radium 226 & 228	/1E-5 Risk
Radium 228	Radionuclide	5.3+/-4.0	5 pCi/l		SDWA MCL [40CFR 141.15(a)]	SDWA MCL is for Radium 226 & 228	/1E-5 Risk
Strontium 90	Radionuclide	0.44+/-0.62	8 pCi/l		WQCC Surface Water Standard; State-Wide Radionuclide Standard		No oral RFD/5.5-06
Tritium	Radionuclide	4,300	20,000 pCi/l		WQCC Surface Water Standard; State-Wide Radionuclide Standard		No oral RFD/2.3-05
Uranium (total)	Radionuclide	26,000		40 pCi/l	WQCC Surface Water Standard; State-Wide Radionuclide Standard		No oral RFD/1.1-04
Uranium 233,234	Radionuclide	122+/-4.16					
Uranium 235	Radionuclide	3.0+/-0.4					
Uranium 238	Radionuclide	84.8+/-3.47					
Acetone	Volatile	80		10U	RCRA 40 CFR Part 264 Subpart F is TBC	Acetone is 40 CFR Part 264 Appendix IX constituent. Background is TBC.	2.9E-03/not considered an oral carcinogen
Carbon Tetrachloride	Volatile	11	5		SDWA MCL [40 CFR 141.61(a)]		2.0E-01/7.6E-06
Trichloroethylene	Volatile	5	5		SDWA MCL [40 CFR 141.61(a)]		No oral RFD/6.5E-07

TABLE 4-3 PROPOSED CHEMICAL SPECIFIC ARARs/TBCs FOR PARAMETERS AT OPERABLE UNIT NO.4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

EXPLANATION OF TABLE

(1) Maximum compound concentrations determined from available data
(2) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR Parts 141, 142 and 143, Final Rule (1/30/91), effective July 30, 1992
(3) Calculated using and estimated average hardness of 108.1 mg/l of CaCO , based on the Background Geotechnical Characterization Report, EG&G, 1989
(4) Current MCL for Lead (50 mg/l) was deleted in 56FR 26560, 6/7/91 (effective 11/6/91)

* Hazard Quotient is calculated with the following equation: (ARAR or TBC ug/l)*(0.001 mg/ug)*(2 liters/day)/(70 kg)*(Chronic Oral Reference Dose mg/kg/day)
Carcinogen risk = (ARAR or TBC ug/l)*(0.001 mg/ug)*(2 liters/day)*(Carcinogenic Slope Factor kg-days/mg)*(350 days/year)*(30 years)/(70 kg)*(365 days/year)*(70 years)
Radionuclide carcinogenic risk = (ARAR or TBC pCi/l)*(2 liters/day)*(Carcinogenic Slope Factor (1 pCi/l))*(350 days/year)*(30 years)
Chronic oral reference doses (RFDs) and Carcinogenic Slope Factors taken from EPA 1990

TABLE 4-4
ANALYSIS OF LOCATION-SPECIFIC ARARs
FOR INITIAL REMEDIAL ACTIONS AT OPERABLE UNIT NO. 4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

LOCATION	CITATION	REQUIREMENT	ARAR TYPE*	COMMENTS
Fault zones	40 CFR 264.18(a)	RCRA regulations specify that hazardous waste treatment, storage, or disposal must not take place within 200 feet of a Holocene fault.	R&A	No faults displaced during Holocene times exist within 200 feet of this site.
Flood plain	40 CFR 264.18(b)	Any RCRA treatment, storage, or disposal facility which lies within a 100-year floodplain must be designed, constructed and operated to avoid washout.	R&A	This site is not located within a 100-year floodplain.
Siting of hazardous waste disposal sites	Colorado Hazardous Waste Act, Sections 25-15-101, 203, 208, 302	Outlines siting criteria for hazardous waste disposal sites.	R&A	Although the proposed action involves the treatment of water rather than disposal of hazardous wastes, these criteria are considered in the siting of the unit.
Siting of wastewater treatment facilities	Colorado Water Quality Control Act Section 25-8-202 and 25-8-702	CDH Water Quality Control Division must approve locations of wastewater treatment facilities.	R&A	Applicable to domestic wastewater treatment facilities, relevant and appropriate to the proposed action.
Siting within an area where action may cause irreparable harm, loss, or destruction of significant articles	36 CFR Part 65, National Historic Preservation Act	Planned actions must avoid threatening significant scientific, prehistorical, historical, or archeological data.	Applicable	Proposed activities will not threaten significant scientific, historic, prehistoric, or archeological artifacts.
Siting on or near historic property owned or controlled by Federal agency	36 CFR Part 800, National Historic Preservation Act	Action to preserve historic properties; planning of action to minimize harm to National Historic Landmarks, included in or eligible for the National Register of Historic Places	Applicable	Proposed activities will not disturb known or suspected historic sites.

TABLE 4-4 (continued)
ANALYSIS OF LOCATION-SPECIFIC ARARs
FOR INITIAL REMEDIAL ACTIONS AT OPERABLE UNIT NO. 4, SOLAR EVAPORATION PONDS AND INTECEPTOR TRENCH SYSTEM

LOCATION	CITATION	REQUIREMENT	ARAR TYPE*	COMMENTS
Siting on critical habitat of endangered or threatened species	50 CFR Parts 200, 402, 33 CFR Parts 320-330	Action to conserve endangered or threatened species.	Applicable	Proposed activities will not adversely affect endangered or threatened species.
Wetlands	40 CFR Part 6, Appendix A	Actions must minimize the destruction, loss, or degradation of wetlands, as defined by Executive Order 11990, Section 7.	Applicable	Proposed activities will not adversely affect wetlands.
	40 CFR Parts 230, 231	Actions must not discharge dredged or fill material into wetlands without permit.	Applicable	Proposed activities will not adversely affect wetlands.
Area affecting stream or river	40 CFR 6.302	Action must protect fish or wildlife.	Applicable	Proposed action will be protective of potentially affected fish and wildlife resources.

* The ARAR types designated reflect the application status of each requirement when preparation of this IM/IRA began. In response to these requirements, investigations were performed and the results are indicated in the Comments column which reflect the lack of any location-specific ARAR requirements which would preclude the proposed activity.

TABLE 4-5
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4, SOLAR EVAPORATION PONDS AND INTERCEPTOR TRENCH SYSTEM

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Treatment	Hazardous waste must be treated to meet treatment standard or using specific technology.	Waste must be identifiable as hazardous per 40 CFR Part 261	RCRA Sections 3004(d)(3), (e)(3) 42 U.S.C. 6924(d)(3), (e)(3)	Applicable	Placement of excavated soil (from storage tanks implacement location) on-site, or transportation of soil off-site, for disposal must be treated to attain levels achievable by best demonstrated available treatment technologies before being land-disposed. If soil and debris is not hazardous waste, EPA policy is that LDR is generally not relevant and appropriate, per EPA 1989x.
Hazardous Waste Generation	Standards applicable to generators including waste accumulation, recordkeeping, container labelling, manifesting, etc.	Waste must be identifiable as hazardous per 40 CFR Part 261	40 CFR Part 262	Applicable	Wastes generated in proposed action may be identifiable as hazardous wastes. An example may include excavated soils from storage tanks implacement location. R&A if wastes are not hazardous.
Hazardous Waste Transportation	Hazardous waste shipment off-site is subject to DOT regulations, manifesting, recordkeeping, and discharge cleanup, etc.	Wastes must be identifiable as hazardous per 40 CFR Part 261.	40 CFR Part 263	Applicable	Wastes identifiable as hazardous must comply with applicable hazardous waste requirements if hazardous waste is shipped off-site. R&A if not hazardous.
Excavation/ Consolidation	Consolidation in storage piles/storage tanks will trigger storage requirements.	Movement of hazardous waste (listed or characteristic) from one unit or area of contamination into another. Consolidation within a unit or area of contamination does not trigger applicability.	40 CFR Part 264 Subpart L/ 40 CFR Part 264 Subpart J	Applicable	RCRA requirements for storage in waste piles or tanks are applicable to interim storage of excavated soil destined for consolidation or off-site disposal.
	Placement on or in land outside unit boundary or area of contamination will trigger land disposal requirements and restrictions. (See Table 4-6 for allowable constituent concentrations.)		40 CFR 268 (Subpart D)	R&A	Soil excavated during installation is subject to land disposal restrictions for wastes if placement occurs outside the area of contamination. Requirements are applicable for RCRA hazardous waste; R&A if not RCRA hazardous waste.

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Treatment or Storage in Tanks	Tanks must have sufficient shell strength (thickness), and, for closed tanks, pressure controls, to assure that they do not collapse or rupture.	RCRA hazardous waste (listed or characteristic), held for temporary period before treatment, disposal, or storage elsewhere, (40 CFR 264.10) in a tank.	40 CFR 264.190	R&A	Applicable to treatment and storage tanks used in treating or containing water contaminated with hazardous waste. R&A if units would be excluded under RCRA, such as wastewater treatment units or if wastes are not RCRA hazardous waste.
	Waste must not be incompatible with the tank material unless the tank is protected by a liner or by other means.		40 CFR 264.191	R&A	
	New tanks or components must be provided with secondary containment.		40 CFR 264.193	R&A	
	Tanks must be provided with controls to prevent overfilling, and sufficient freeboard maintained in open tanks to prevent overtopping by wave action or precipitation.		40 CFR 264.194	R&A	
	Inspect the following: overfilling control, control equipment, monitoring data, waste level (for uncovered tanks), tank condition, above-ground portions of tanks, (to assess their structural integrity) and the area surrounding the tank (to identify signs of leakage).		40 CFR 264.195	R&A	
	Repair any corrosion, crack, or leak.		40 CFR 264.196	R&A	
	At closure, remove all hazardous waste and hazardous waste residues from tanks, discharge control equipment and discharge confinement structures.		40 CFR 264.197	R&A	

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Treatment or Storage in Tanks (cont.)	Store ignitable and reactive waste so as to prevent the waste from igniting or reacting. Ignitable or reactive wastes in covered tanks must comply with buffer zone requirements in "Flammable and Combustible Liquids Code," Tables 2-1 through 2-6 (National Fire Protection Association, 1976 or 1981).		40 CFR 264.198	R&A	
Container Storage (On-Site)	Containers of hazardous waste must be: · Maintained in good condition;	RCRA hazardous waste (listed or characteristic) held for a temporary period before treatment, disposal, or storage elsewhere, in a container (i.e., any portable device in which a material is stored, transported, disposed of, or handled) (40 CFR 264.10).	40 CFR 264.171	Applicable	RCRA container storage requirements are applicable if hazardous wastes are stored, R&A if stored wastes are not RCRA hazardous wastes.
	· Compatible with hazardous waste to be stored; and		40 CFR 264.172		
	· Closed during storage (except to add or remove waste).		40 CFR 264.173		
	Inspect container storage areas weekly for deterioration.		40 CFR 264.174		
	Place containers on a sloped, crack-free base, and protect from contact with accumulated liquid. Provide containment system with a capacity of 10% of the volume of containers of free liquids. Remove spilled or leaked waste in a timely manner to prevent overflow of the containment system.		40 CFR 264.175		
	Keep containers of ignitable or reactive waste at least 50' from facility boundary.		40 CFR 264.176		

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Container Storage (On-Site) (cont)	Keep incompatible materials separate. Separate incompatible materials stored near each other by a dike or other barrier.		40 CFR 264.177		
	At closure, remove all hazardous waste and residues from the containment system, and decontaminate or remove all containers, liners.		40 CFR 264.178		
Off-Site Treatment Storage or Disposal	In the case of any removal or remedial action involving the transfer of any hazardous substance or pollutant or contaminant off-site, such hazardous substance or pollutant or contaminant shall only be transferred to a facility which is operating in compliance with section 3004 and 3005 of the Solid Waste Disposal Act (or where applicable, in compliance with the Toxic Substances Control Act or other applicable Federal law) and all applicable State requirements. Such substance or pollutant or contaminant may be transferred to a land disposal facility only if the President determines that both of the following requirements are met: · The unit to which the hazardous substance or pollutant or contaminant is transferred is not releasing any hazardous waste, or constituent thereof, into the ground water or surface water or soil.		SARA section 121(d)(2)(C)	Applicable	Applicable to any off-site treatment, storage, or disposal of hazardous wastes generated during on-site remedial actions.

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Off-Site Treatment Storage or Disposal (cont)	· All such releases from other units at the facility are being controlled by a corrective action program approved by the Administrator under Subtitle C of the Solid Waste Disposal Act.				
	Wastes must be treated using technology or to concentration level by best demonstrated available technology (BDAT) for each hazardous constituent in the waste, prior to land disposal. (See Table 4-6)	Wastes must be identifiable as hazardous per 40 CFR Part 261	40 CFR Part 268	Applicable	Applicable to wastes, other than treated effluent, such as treatment sludge, excavated soils, used treatment materials. Also applicable to on-site land disposal or "placement" outside the area of contamination. R&A if not RCRA hazardous waste.
Discharge of Treatment System Effluent	Use of best available technology (BAT) economically achievable is required to control toxic and non-conventional pollutants. Use of best conventional pollutant control technology (BCT) is required to control conventional pollutants. Technology-based limitations may be determined on a case-by-case basis.		40 CFR 122.44	R&A	
U.S. EPA Ground-Water Protection Strategy	The strategy includes guidelines on classifying ground water for EPA decisions affecting ground water protection and corrective actions. Criteria include ecological importance, replaceability, and vulnerability consideration.	The protection strategy does not involve applicable ARARs but does contain policy statements to be considered.		TBC	This strategy is to be considered regarding ground water remediation for Operable Unit 4.

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
National Ambient Air Quality	National ambient air quality standards have been set to attain and maintain primary and secondary standards to protect public health and the environment. Requirements include a major-source permit, prevention of significant deterioration permit, non-attainable area permit, and visibility permit.		CAA Section 109 and 40 CFR 50	R&A	Remedial actions at Operable Unit 4 that may result in new sources of air emissions include natural gas emissions from heat source for flash evaporator and excavation.
New Source Performance Standards	Standards for new sources of air emissions. Requirements are source-specific.	Need to determine if these standards apply to potential remedial actions.	CAA Section III	R&A	
Transportation of Hazardous Materials	Specific DOT requirements exist for labeling, packaging, shipping papers/manifesting, and transporting by rail, aircraft, vessel, and highway.		49 CFR 100-199	Applicable	Applicable to wastes or materials shipped off-site.
Environmental Impact of Federal Actions	A statement of environmental impact is required. Establishes provisions applicable to and binding on all federal agencies for implementing the procedural requirements of the National Environmental Policy Act (NEPA). Includes procedures for planning (Part 1501), preparing environmental impact statements (part 1502), decision-making (Part 1505), and compliance (Part 1507).		NEPA Section 102(2)(c) and 40 CFR 1500-1508; DOE 5440.1C	R&A	EPA, CDH, and DOE have reached agreement on the applicability of NEPA to RCRA/CERCLA actions.
Worker Safety	Occupational Safety and Health program for DOE contractor employees at government-owned contractor-operated facilities.		OHSA, 29 CFR 1910.120; DOE 5483.1A	TBC	

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Emergency Planning, Preparedness, and Response for Operations	Provide coordination direction of planning, preparedness, and response to operational emergencies in which there is a potential for personal injury, destruction of property, theft, or release of toxic, radioactive, or other hazardous material which present a potential threat to health, safety, or the environment.		NCP, 40 CFR 300; DOE 5500.2	TBC	
General Environmental Protection Program	Establishes environmental protection program requirements, authorities, and responsibilities for DOE operations for ensuring compliance with federal and state environment protection laws and regulations, federal executive orders, and internal department policies.		DOE 5400.1	TBC	
Environmental Compliance Issue Coordination	Establishes DOE requirements for coordination of significant environmental compliance issues.		DOE 5400.2A	TBC	
Hazardous and Radioactive Mixed Waste Program	Establishes DOE hazards and radioactive mixed waste policies and requirements and implements RCRA.		DOE 5400.3	TBC	
Radiation Protection	Establishes radiation protection standards and requirements including occupationally related exposure of individuals in controlled areas.		DOE 5480.1	TBC	

TABLE 4-5 (continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 4

Action	Requirement	Prerequisite	Citation	ARAR	Comments
Packaging and Transportation of Hazardous Materials, Hazardous Substances, hazardous wastes, and radioactive materials	Establishes requirements for packaging and transportation.		DOE 5480.3	TBC	
Comprehensive Environmental Response, Compensation and Liability Act Program	Establishes basic requirements for implementation of the Superfund at DOE facilities.		DOE 5480.14	TBC	
Environmental Protection Safety, and Health Protection Information Reporting Requirements	Establishes requirements and procedures for reporting information having environmental protection, safety, or health significance for DOE operations.		DOE 5484.1	TBC	
Radioactive Waste Management	Establishes policies and guidelines by which DOE manages radioactive waste, waste byproducts, and radioactively contaminated surplus facilities.		DOE 5820.2A	TBC	

5.0 EXPLANATION OF SIGNIFICANT CHANGES TO THE IM/IRA

Significant changes which change or alter this IM/IRA may result based on comments received by the public, USEPA or the State. DOE will respond to comments which change or alter the selected remedy and will included those responses in the Final Decision Document for this IM/IRA.

6.0 RESPONSIVENESS SUMMARY

The responsiveness summary will be developed following the public comment period for this proposed IM/IRA Decision Document. The responsiveness summary will be a concise and complete summary of significant comments received from the public during the public comment period.

7.0 LIST OF REFERENCES

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APPENDIX A

ANALYTICAL DATA FOR INTERCEPTOR TRENCH SYSTEM WATER

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	ALUMINUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	ALUMINUM	.500	MG/L			V 200	A	RFME	27-MAR-89
SW095	TRG	SW095002	ALUMINUM	.208	MG/L			V 200	A	RFME	22-MAY-89
SW095	TRG	SW095002	ALUMINUM	.200	MG/L		U	V 200	A	RFMS	22-MAY-89
SW095	TRG	SW095003	ALUMINUM	.332	MG/L			V 200	A	RFME	08-JUN-89
SW095	TRG	SW095003	ALUMINUM	.200	MG/L		U	V 200	A	RFMS	08-JUN-89
SW095	TRG	SW095004	ALUMINUM	.386	MG/L			V 200	A	RFME	05-JUL-89
SW095	TRG	SW095004	ALUMINUM	.208	MG/L			A 200	A	RFMS	05-JUL-89
SW095	TRG	SW095005	ALUMINUM	.238	MG/L			A 200	A	RFME	10-AUG-89
SW095	TRG	SW095005	ALUMINUM	.224	MG/L			A 200	A	RFMS	10-AUG-89
SW095	TRG	SW095006	ALUMINUM	.200	MG/L		U	V 200	A	RFMS	18-SEP-89
SW095	TRG	SW095007	ALUMINUM	.293	MG/L			A 200	A	RFME	10-OCT-89
SW095	TRG	SW095007	ALUMINUM	.277	MG/L			A 200	A	RFMS	10-OCT-89
SW095	TRG	SW095008	ALUMINUM	.410	MG/L			200		RFME	02-NOV-89
SW095	TRG	SW095008	ALUMINUM	.309	MG/L			200		RFMS	02-NOV-89
SW095	TRG	SW095009	ALUMINUM	.200	MG/L		U	200		RFME	07-DEC-89
SW095	TRG	SW095009	ALUMINUM	.200	MG/L		U	200		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	ALUMINUM	200	UG/L		U	200		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ALUMINUM	200	UG/L		U	200		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ALUMINUM	228	UG/L			200		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ALUMINUM	553	UG/L			200		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ALUMINUM	200	UG/L		U	200		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	ALUMINUM	200	UG/L		U	200		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ALUMINUM	107.00	UG/L		B	200		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	ALUMINUM	142.00	UG/L		B	200		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	ALUMINUM	124.00	UG/L		B	200		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	ALUMINUM	190.00	UG/L		B	200		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ALUMINUM	77.30	UG/L		B	200		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	ALUMINUM	1360.00	UG/L			200		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ALUMINUM	172.00	UG/L		B	200		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	ALUMINUM	128.00	UG/L		B	200		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	ANTIMONY	0.060	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	ANTIMONY	.142	MG/L			A 60.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	ANTIMONY	.125	MG/L			A 60.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	ANTIMONY	.0600	MG/L		U	A 60.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	ANTIMONY	.0600	MG/L		U	A 60.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	ANTIMONY	.0600	MG/L		U	A 60.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	ANTIMONY	.0600	MG/L		U	V 60.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	ANTIMONY	.0600	MG/L		U	60.0		RFME	02-NOV-89
SW095	TRG	SW095008	ANTIMONY	.0600	MG/L		U	60.0		RFMS	02-NOV-89
SW095	TRG	SW095009	ANTIMONY	.0600	MG/L		U	60.0		RFME	07-DEC-89
SW095	TRG	SW095009	ANTIMONY	.0600	MG/L		U	60.0		RFMS	07-DEC-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095W053090A	ANTIMONY	60	UG/L		U	60		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ANTIMONY	60	UG/L		U	60		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ANTIMONY	60	UG/L		U	60		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ANTIMONY	60	UG/L		U	60		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ANTIMONY	60	UG/L		U	60		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	ANTIMONY	60	UG/L		U	60		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ANTIMONY	43.00	UG/L		B	60		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	ANTIMONY	43.00	UG/L		B	60		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	ANTIMONY	28.00	UG/L		B	60		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	ANTIMONY	30.30	UG/L		B	60		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ANTIMONY	20.90	UG/L		B	60		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	ANTIMONY	13.60	UG/L		B	60		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ANTIMONY	80.40	UG/L		N	60		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	ANTIMONY	72.30	UG/L		N	60		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	ARSENIC	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	ARSENIC	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	ARSENIC	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	ARSENIC	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	ARSENIC	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	ARSENIC	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	ARSENIC	.0100	MG/L		U	A 10.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	ARSENIC	.0100	MG/L		U	V 10.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	ARSENIC	.0100	MG/L		U	A 10.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	ARSENIC	.0100	MG/L		U	V 10.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	ARSENIC	.0100	MG/L		U	V 10.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	ARSENIC	.0100	MG/L		U	R 10.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	ARSENIC	.0100	MG/L		U	R 10.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	ARSENIC	.0100	MG/L		U	R 10.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	ARSENIC	.0100	MG/L		U	R 10.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	ARSENIC	.0100	MG/L		U	R 10.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	ARSENIC	.0100	MG/L		U	V 10.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	ARSENIC	.0100	MG/L		U	A 10.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	ARSENIC	.0100	MG/L		U	10.0		RFME	02-NOV-89
SW095	TRG	SW095008	ARSENIC	.0100	MG/L		U	10.0		RFMS	02-NOV-89
SW095	TRG	SW095009	ARSENIC	.0100	MG/L		U	10.0		RFME	07-DEC-89
SW095	TRG	SW095009	ARSENIC	.0100	MG/L		U	10.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	ARSENIC	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ARSENIC	20	UG/L		U	20		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ARSENIC	20	UG/L		U	20		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ARSENIC	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ARSENIC	10	UG/L		U	10		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	ARSENIC	10	UG/L		U	10		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ARSENIC	1.00	UG/L		U	10		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	ARSENIC	2.00	UG/L		U	10		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	ARSENIC	2.00	UG/L		U	10		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	ARSENIC	2.00	UG/L		U	10		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ARSENIC	2.00	UG/L		B	10		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	ARSENIC	2.00	UG/L		B	10		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ARSENIC	2.00	UG/L		U	10		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	ARSENIC	2.00	UG/L		U	10		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	BARIUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	BARIUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	BARIUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	BARIUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	BARIUM	0.200	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	BARIUM	0.200	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	BARIUM	.200	MG/L		U	V 200	A	RFME	27-MAR-89
SW095	TRG	SW095002	BARIUM	.200	MG/L		U	V 200	A	RFME	22-MAY-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095002	BARIUM	.200	MG/L		U	V 200	A	RFMS	22-MAY-89
SW095	TRG	SW095003	BARIUM	.200	MG/L		U	V 200	A	RFME	08-JUN-89
SW095	TRG	SW095003	BARIUM	.200	MG/L		U	V 200	A	RFMS	08-JUN-89
SW095	TRG	SW095004	BARIUM	.200	MG/L		U	V 200	A	RFME	05-JUL-89
SW095	TRG	SW095004	BARIUM	.200	MG/L		U	V 200	A	RFMS	05-JUL-89
SW095	TRG	SW095005	BARIUM	.200	MG/L		U	V 200	A	RFME	10-AUG-89
SW095	TRG	SW095005	BARIUM	.200	MG/L		U	V 200	A	RFMS	10-AUG-89
SW095	TRG	SW095006	BARIUM	.200	MG/L		U	V 200	A	RFMS	18-SEP-89
SW095	TRG	SW095007	BARIUM	.200	MG/L		U	V 200	A	RFME	10-OCT-89
SW095	TRG	SW095007	BARIUM	.200	MG/L		U	V 200	A	RFMS	10-OCT-89
SW095	TRG	SW095008	BARIUM	.200	MG/L		U	200		RFME	02-NOV-89
SW095	TRG	SW095008	BARIUM	.200	MG/L		U	200		RFMS	02-NOV-89
SW095	TRG	SW095009	BARIUM	.200	MG/L		U	200		RFME	07-DEC-89
SW095	TRG	SW095009	BARIUM	.200	MG/L		U	200		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	BARIUM	200	UG/L		U	200		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	BARIUM	200	UG/L		U	200		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BARIUM	200	UG/L		U	200		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BARIUM	200	UG/L		U	200		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	BARIUM	202	UG/L			200		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	BARIUM	200	UG/L		U	200		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BARIUM	151.00	UG/L		B	200		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	BARIUM	151.00	UG/L		B	200		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	BARIUM	151.00	UG/L		B	200		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	BARIUM	157.00	UG/L		B	200		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BARIUM	65.00	UG/L		B	200		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	BARIUM	86.00	UG/L		B	200		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BARIUM	179.00	UG/L		B	200		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	BARIUM	192.00	UG/L		B	200		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	BERYLLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	BERYLLIUM	0.005	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	BERYLLIUM	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW88A086	BERYLLIUM	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	BERYLLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	BERYLLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	BERYLLIUM	0050	MG/L		U	A 5.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	BERYLLIUM	.0050	MG/L		U	A 5.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	BERYLLIUM	.0050	MG/L		U	5.0		RFME	02-NOV-89
SW095	TRG	SW095008	BERYLLIUM	.0050	MG/L		U	5.0		RFMS	02-NOV-89
SW095	TRG	SW095009	BERYLLIUM	.0050	MG/L		U	5.0		RFME	07-DEC-89
SW095	TRG	SW095009	BERYLLIUM	.0050	MG/L		U	5.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	BERYLLIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	BERYLLIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	BERYLLIUM	5	UG/L		U	5		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BERYLLIUM	5	UG/L		U	5		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	BERYLLIUM	5	UG/L		U	5		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	BERYLLIUM	5	UG/L		U	5		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BERYLLIUM	1.00	UG/L		U		5	DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	BERYLLIUM	1.00	UG/L		U		5	SMETCLPTCL	26-SEP-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00963WC	BERYLLIUM	1.00	UG/L		U	5		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	BERYLLIUM	1.00	UG/L		U	5		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BERYLLIUM	1.00	UG/L		U	5		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	BERYLLIUM	1.00	UG/L		U	5		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BERYLLIUM	1.00	UG/L		U	5		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	BERYLLIUM	1.00	UG/L		U	5		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	CADMIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	CADMIUM	0.006	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	CADMIUM	0.006	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	CADMIUM	0.006	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	CADMIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	CADMIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	CADMIUM	.0050	MG/L		U	V 5.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	CADMIUM	.0050	MG/L		U	V 5.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	CADMIUM	.0050	MG/L		U	5.0		RFME	02-NOV-89
SW095	TRG	SW095008	CADMIUM	.0050	MG/L		U	5.0		RFMS	02-NOV-89
SW095	TRG	SW095009	CADMIUM	.0050	MG/L		U	5.0		RFME	07-DEC-89
SW095	TRG	SW095009	CADMIUM	.0050	MG/L		U	5.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	CADMIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	CADMIUM	5	UG/L		U	5		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CADMIUM	5	UG/L		U	5		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CADMIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	CADMIUM	5	UG/L		U	5		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	CADMIUM	5	UG/L		U	5		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CADMIUM	2.00	UG/L		U	5		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	CADMIUM	2.00	UG/L		B	5		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	CADMIUM	2.00	UG/L		U	5		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	CADMIUM	2.10	UG/L		B	5		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CADMIUM	2.00	UG/L		U	5		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	CADMIUM	2.00	UG/L		U	5		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CADMIUM	2.00	UG/L		U	5		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	CADMIUM	2.00	UG/L		U	5		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	CALCIUM	400	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	CALCIUM	700	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	CALCIUM	420	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	CALCIUM	400	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	CALCIUM	420	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	CALCIUM	410	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	CALCIUM	316.00	MG/L			V 5000	A	RFME	27-MAR-89
SW095	TRG	SW095002	CALCIUM	366.00	MG/L			V 5000	A	RFME	22-MAY-89
SW095	TRG	SW095002	CALCIUM	365.00	MG/L			V 5000	A	RFMS	22-MAY-89
SW095	TRG	SW095003	CALCIUM	314.00	MG/L			V 5000	A	RFME	08-JUN-89
SW095	TRG	SW095003	CALCIUM	313.00	MG/L			V 5000	A	RFMS	08-JUN-89
SW095	TRG	SW095004	CALCIUM	349.00	MG/L			V 5000	A	RFME	05-JUL-89
SW095	TRG	SW095004	CALCIUM	358.00	MG/L			V 5000	A	RFMS	05-JUL-89
SW095	TRG	SW095005	CALCIUM	348.00	MG/L			V 5000	A	RFME	10-AUG-89
SW095	TRG	SW095005	CALCIUM	373.00	MG/L			V 5000	A	RFMS	10-AUG-89
SW095	TRG	SW095006	CALCIUM	271.00	MG/L			V 5000	A	RFMS	18-SEP-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095007	CALCIUM	396.00	MG/L			A 5000	A	RFME	10-OCT-89
SW095	TRG	SW095007	CALCIUM	392.00	MG/L			A 5000	A	RFMS	10-OCT-89
SW095	TRG	SW095008	CALCIUM	334.00	MG/L			5000		RFME	02-NOV-89
SW095	TRG	SW095008	CALCIUM	337.00	MG/L			5000		RFMS	02-NOV-89
SW095	TRG	SW095009	CALCIUM	342.00	MG/L			5000		RFME	07-DEC-89
SW095	TRG	SW095009	CALCIUM	342.00	MG/L			5000		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	CALCIUM	248000	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	CALCIUM	272000	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	CALCIUM	272000	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CALCIUM	241000	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CALCIUM	462000	UG/L			5000		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	CALCIUM	395000	UG/L			5000		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CALCIUM	295000.00	UG/L			5000		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	CALCIUM	297000.00	UG/L			5000		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	CALCIUM	381000.00	UG/L			5000		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	CALCIUM	392000.00	UG/L			5000		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CALCIUM	122000.00	UG/L			5000		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	CALCIUM	140000.00	UG/L			5000		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CALCIUM	298000.00	UG/L			5000		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	CALCIUM	318000.00	UG/L			5000		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	CESIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	CESIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	CESIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	CESIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	CESIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	CESIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW095001	CESIUM	1.00	MG/L		U	V 1000	A	RFME	27-MAR-89
SW095	TRG	SW095002	CESIUM	.100	MG/L		U	V 100	A	RFME	22-MAY-89
SW095	TRG	SW095002	CESIUM	.100	MG/L		U	V 100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	CESIUM	.100	MG/L		U	V 100	A	RFME	08-JUN-89
SW095	TRG	SW095003	CESIUM	.100	MG/L		U	V 100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	CESIUM	.100	MG/L		U	V 100	A	RFME	05-JUL-89
SW095	TRG	SW095004	CESIUM	.100	MG/L		U	V 100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	CESIUM	.100	MG/L		U	V 100	A	RFME	10-AUG-89
SW095	TRG	SW095005	CESIUM	.100	MG/L		U	V 100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	CESIUM	2.50	MG/L		U	V 2500	A	RFMS	18-SEP-89
SW095	TRG	SW095007	CESIUM	2.50	MG/L		U	V 2500	A	RFME	10-OCT-89
SW095	TRG	SW095007	CESIUM	2.50	MG/L		U	V 2500	A	RFMS	10-OCT-89
SW095	TRG	SW095008	CESIUM	2.50	MG/L		U	2500		RFME	02-NOV-89
SW095	TRG	SW095008	CESIUM	2.50	MG/L		U	2500		RFMS	02-NOV-89
SW095	TRG	SW095009	CESIUM	2.50	MG/L		U	2500		RFME	07-DEC-89
SW095	TRG	SW095009	CESIUM	2.50	MG/L		U	2500		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	CESIUM	100	UG/L		U	100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	CESIUM	2500	UG/L		U	2500		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	CESIUM	2500	UG/L		U	2500		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	CESIUM	2500	UG/L		U	2500		SMETNOCLP	30-MAY-90
SW095	TRG	SW00157WC	CESIUM	100	UG/L		U	100		DMETNOCLP	26-JUN-90
SW095	TRG	SW00157WC	CESIUM	100	UG/L		U	100		SMETNOCLP	26-JUN-90
SW095	TRG	SW00355WC	CESIUM	92.00	UG/L		U	1000		DMETNOCLP	26-SEP-90
SW095	TRG	SW00355WC	CESIUM	92.00	UG/L		U	1000		SMETNOCLP	26-SEP-90
SW095	TRG	SW00963WC	CESIUM	76.00	UG/L		U	1000		DMETNOCLP	14-MAR-91
SW095	TRG	SW00963WC	CESIUM	76.00	UG/L		U	1000		SMETNOCLP	14-MAR-91
SW095	TRG	SW01065WC	CESIUM	112.00	UG/L		U	1000		DMETNOCLP	11-APR-91
SW095	TRG	SW01065WC	CESIUM	112.00	UG/L		U	1000		SMETNOCLP	11-APR-91
SW095	TRG	SW01172WC	CESIUM	112.00	UG/L		UN	1000		SMETNOCLP	22-MAY-91
SW095	TRG	SW01172WC	CESIUM	112.00	UG/L		UN	1000		DMETNOCLP	22-MAY-91
SW095	TRG	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFMS	12-JUL-88

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	S	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	CHROMIUM	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	CHROMIUM	.0169	MG/L			A 10.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	CHROMIUM	.0156	MG/L			A 10.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	CHROMIUM	.0100	MG/L		U	V 10.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	CHROMIUM	.0100	MG/L		U	R 10.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	CHROMIUM	.0100	MG/L		U	R 10.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	CHROMIUM	.0100	MG/L		U	10.0		RFME	02-NOV-89
SW095	TRG	SW095008	CHROMIUM	.0100	MG/L		U	10.0		RFMS	02-NOV-89
SW095	TRG	SW095009	CHROMIUM	.0100	MG/L		U	10.0		RFME	07-DEC-89
SW095	TRG	SW095009	CHROMIUM	.0100	MG/L		U	10.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	CHROMIUM	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	CHROMIUM	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHROMIUM	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHROMIUM	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	CHROMIUM	10	UG/L		U	10		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	CHROMIUM	10	UG/L		U	10		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CHROMIUM	27.20	UG/L			10		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	CHROMIUM	30.30	UG/L			10		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	CHROMIUM	14.00	UG/L			10		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	CHROMIUM	19.30	UG/L			10		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CHROMIUM	9.20	UG/L		B	10		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	CHROMIUM	10.50	UG/L			10		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CHROMIUM	25.50	UG/L			10		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	CHROMIUM	22.40	UG/L			10		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	COBALT	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	COBALT	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	COBALT	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	COBALT	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	COBALT	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	COBALT	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	COBALT	.0500	MG/L		U	V 50.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	COBALT	.0500	MG/L		U	V 50.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	COBALT	.0500	MG/L		U	V 50.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	COBALT	.0500	MG/L		U	V 50.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	COBALT	.0500	MG/L		U	V 50.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	COBALT	.0500	MG/L		U	V 50.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	COBALT	.0500	MG/L		U	V 50.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	COBALT	.0500	MG/L		U	V 50.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	COBALT	.0500	MG/L		U	V 50.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	COBALT	.0500	MG/L		U	A 50.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	COBALT	.0500	MG/L		U	V 50.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	COBALT	.0500	MG/L		U	V 50.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	COBALT	.0500	MG/L		U	50.0		RFME	02-NOV-89
SW095	TRG	SW095008	COBALT	.0500	MG/L		U	50.0		RFMS	02-NOV-89
SW095	TRG	SW095009	COBALT	.0500	MG/L		U	50.0		RFME	07-DEC-89
SW095	TRG	SW095009	COBALT	.0500	MG/L		U	50.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	COBALT	50	UG/L		U	50		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	COBALT	50	UG/L		U	50		DMETCLPTAL	30-MAY-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095W053090A	COBALT	50	UG/L		U	50		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	COBALT	50	UG/L		U	50		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	COBALT	50	UG/L		U	50		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	COBALT	50	UG/L		U	50		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	COBALT	7.60	UG/L		B	50		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	COBALT	8.60	UG/L		B	50		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	COBALT	3.90	UG/L		B	50		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	COBALT	6.10	UG/L		B	50		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	COBALT	3.00	UG/L		U	50		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	COBALT	3.00	UG/L		U	50		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	COBALT	5.40	UG/L		B	50		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	COBALT	4.00	UG/L		B	50		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	COPPER	0.025	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	COPPER	0.025	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	COPPER	0.025	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	COPPER	0.025	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	COPPER	0.025	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	COPPER	0.025	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	COPPER	.0308	MG/L			A 25.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	COPPER	.0250	MG/L		U	A 25.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	COPPER	.0250	MG/L		U	A 25.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	COPPER	.0250	MG/L		U	V 25.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	COPPER	.0250	MG/L		U	V 25.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	COPPER	.0250	MG/L		U	A 25.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	COPPER	.0250	MG/L		U	A 25.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	COPPER	.0250	MG/L		U	A 25.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	COPPER	.0250	MG/L		U	A 25.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	COPPER	.0250	MG/L		U	A 25.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	COPPER	.0250	MG/L		U	A 25.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	COPPER	.0251	MG/L			A 25.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	COPPER	.0257	MG/L			25.0		RFME	02-NOV-89
SW095	TRG	SW095008	COPPER	.0259	MG/L			25.0		RFMS	02-NOV-89
SW095	TRG	SW095009	COPPER	.0250	MG/L		U	25.0		RFME	07-DEC-89
SW095	TRG	SW095009	COPPER	.0250	MG/L		U	25.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	COPPER	25	UG/L		U	25		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	COPPER	25	UG/L		U	25		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	COPPER	25	UG/L		U	25		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	COPPER	25	UG/L		U	25		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	COPPER	25	UG/L		U	25		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	COPPER	25	UG/L		U	25		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	COPPER	5.90	UG/L		B	25		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	COPPER	2.60	UG/L		B	25		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	COPPER	6.50	UG/L		B	25		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	COPPER	4.20	UG/L		B	25		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	COPPER	8.40	UG/L		B	25		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	COPPER	10.10	UG/L		B	25		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	COPPER	11.00	UG/L		U	25		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	COPPER	11.00	UG/L		U	25		DMETCLPTAL	22-MAY-91
SW095	TRG	SW00355WC	CYANIDE	2.00	UG/L		U	10		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	CYANIDE	3.50	UG/L		U	10		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CYANIDE	62.50	UG/L		N	10		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CYANIDE	2.50	UG/L		U	10		SMETCLPTCL	22-MAY-91
SW095	TRG	SW88A086	IRON	0.100	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	IRON	0.100	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	IRON	0.100	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	IRON	0.100	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	IRON	0.100	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	IRON	0.100	MG/L		U		N	RFME	12-JUL-88

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095001	IRON	.452	MG/L			V 100	A	RFME	27-MAR-89
SW095	TRG	SW095002	IRON	.114	MG/L			V 100	A	RFME	22-MAY-89
SW095	TRG	SW095002	IRON	.100	MG/L		U	V 100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	IRON	.234	MG/L			V 100	A	RFME	08-JUN-89
SW095	TRG	SW095003	IRON	.100	MG/L		U	V 100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	IRON	.230	MG/L			A 100	A	RFME	05-JUL-89
SW095	TRG	SW095004	IRON	.100	MG/L		U	A 100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	IRON	.100	MG/L		U	V 100	A	RFME	10-AUG-89
SW095	TRG	SW095005	IRON	.100	MG/L		U	A 100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	IRON	.100	MG/L		U	V 100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	IRON	.108	MG/L			V 100	A	RFME	10-OCT-89
SW095	TRG	SW095007	IRON	.115	MG/L			V 100	A	RFMS	10-OCT-89
SW095	TRG	SW095008	IRON	.215	MG/L			100		RFME	02-NOV-89
SW095	TRG	SW095008	IRON	.100	MG/L		U	100		RFMS	02-NOV-89
SW095	TRG	SW095009	IRON	.100	MG/L		U	100		RFME	07-DEC-89
SW095	TRG	SW095009	IRON	.100	MG/L		U	100		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	IRON	100	UG/L		U	100		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	IRON	100	UG/L		U	100		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	IRON	210	UG/L			100		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	IRON	419	UG/L			100		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	IRON	100	UG/L		U	100		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	IRON	100	UG/L		U	100		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	IRON	14.00	UG/L		U	100		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	IRON	48.00	UG/L		B	100		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	IRON	40.60	UG/L		BN*	100		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	IRON	865.00	UG/L		N*	100		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	IRON	39.30	UG/L		B	100		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	IRON	1550.00	UG/L			100		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	IRON	79.10	UG/L		B	100		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	IRON	23.90	UG/L		B	100		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	LEAD	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	LEAD	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	LEAD	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	LEAD	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW88A086	LEAD	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	LEAD	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	LEAD	.0050	MG/L		U	A 5.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	LEAD	.0050	MG/L		U	A 5.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	LEAD	.0050	MG/L		U	A 5.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	LEAD	.0050	MG/L		U	A 5.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	LEAD	.0050	MG/L		U	A 5.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	LEAD	.0050	MG/L		U	A 5.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	LEAD	.0050	MG/L		U	A 5.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	LEAD	.0050	MG/L		U	A 5.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	LEAD	.0050	MG/L		U	A 5.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	LEAD	.0050	MG/L		U	A 5.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	LEAD	.0030	MG/L		U	A 3.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	LEAD	.0030	MG/L		U	A 3.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	LEAD	.0030	MG/L		U	3.0		RFME	02-NOV-89
SW095	TRG	SW095008	LEAD	.0030	MG/L		U	3.0		RFMS	02-NOV-89
SW095	TRG	SW095009	LEAD	.0030	MG/L		U	3.0		RFME	07-DEC-89
SW095	TRG	SW095009	LEAD	.0030	MG/L		U	3.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	LEAD	3	UG/L		U	3		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	LEAD	3	UG/L		U	3		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	LEAD	3	UG/L		U	3		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	LEAD	3.6	UG/L			3		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	LEAD	3	UG/L		U	3		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	LEAD	3	UG/L		U	3		SMETCLPTCL	26-JUN-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00355WC	LEAD	1.00	UG/L		U	3		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	LEAD	1.00	UG/L		U	3		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	LEAD	1.00	UG/L		U	3		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	LEAD	1.00	UG/L		U	3		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	LEAD	1.00	UG/L		U	3		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	LEAD	2.70	UG/L		BW	3		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	LEAD	1.00	UG/L		UW	3		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	LEAD	1.00	UG/L		U	3		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	LITHIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	LITHIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	LITHIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	LITHIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	LITHIUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	LITHIUM	NA	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW095001	LITHIUM	.412	MG/L		V	100	A	RFME	27-MAR-89
SW095	TRG	SW095002	LITHIUM	.445	MG/L		V	100	A	RFME	22-MAY-89
SW095	TRG	SW095002	LITHIUM	.449	MG/L		V	100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	LITHIUM	.380	MG/L		V	100	A	RFME	08-JUN-89
SW095	TRG	SW095003	LITHIUM	.396	MG/L		V	100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	LITHIUM	80.50	MG/L		V	100	A	RFME	05-JUL-89
SW095	TRG	SW095004	LITHIUM	84.10	MG/L		V	100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	LITHIUM	.410	MG/L		V	100	A	RFME	10-AUG-89
SW095	TRG	SW095005	LITHIUM	.436	MG/L		V	100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	LITHIUM	.342	MG/L		A	100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	LITHIUM	.464	MG/L		V	100	A	RFME	10-OCT-89
SW095	TRG	SW095007	LITHIUM	.461	MG/L		V	100	A	RFMS	10-OCT-89
SW095	TRG	SW095008	LITHIUM	.570	MG/L			100		RFME	02-NOV-89
SW095	TRG	SW095008	LITHIUM	.589	MG/L			100		RFMS	02-NOV-89
SW095	TRG	SW095009	LITHIUM	.360	MG/L			100		RFME	07-DEC-89
SW095	TRG	SW095009	LITHIUM	.365	MG/L			100		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	LITHIUM	240	UG/L			100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	LITHIUM	240	UG/L			100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	LITHIUM	276	UG/L			100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	LITHIUM	283	UG/L			100		DMETNOCLP	30-MAY-90
SW095	TRG	SW00157WC	LITHIUM	402	UG/L			100		DMETNOCLP	26-JUN-90
SW095	TRG	SW00157WC	LITHIUM	410	UG/L			100		SMETNOCLP	26-JUN-90
SW095	TRG	SW00355WC	LITHIUM	308.00	UG/L			100		DMETNOCLP	26-SEP-90
SW095	TRG	SW00355WC	LITHIUM	305.00	UG/L			100		SMETNOCLP	26-SEP-90
SW095	TRG	SW00963WC	LITHIUM	394.00	UG/L			100		DMETNOCLP	14-MAR-91
SW095	TRG	SW00963WC	LITHIUM	392.00	UG/L			100		SMETNOCLP	14-MAR-91
SW095	TRG	SW01065WC	LITHIUM	170.00	UG/L		E	100		DMETNOCLP	11-APR-91
SW095	TRG	SW01065WC	LITHIUM	178.00	UG/L		E	100		SMETNOCLP	11-APR-91
SW095	TRG	SW01172WC	LITHIUM	351.00	UG/L			100		SMETNOCLP	22-MAY-91
SW095	TRG	SW01172WC	LITHIUM	376.00	UG/L			100		DMETNOCLP	22-MAY-91
SW095	SD	SW88A086	MAGNESIUM	100	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	MAGNESIUM	97	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	MAGNESIUM	98	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	MAGNESIUM	100	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	MAGNESIUM	100	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	MAGNESIUM	100	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	MAGNESIUM	83.80	MG/L		V	5000	A	RFME	27-MAR-89
SW095	TRG	SW095002	MAGNESIUM	96.00	MG/L		A	5000	A	RFME	22-MAY-89
SW095	TRG	SW095002	MAGNESIUM	96.00	MG/L		A	5000	A	RFMS	22-MAY-89
SW095	TRG	SW095003	MAGNESIUM	77.00	MG/L		V	5000	A	RFME	08-JUN-89
SW095	TRG	SW095003	MAGNESIUM	76.80	MG/L		V	5000	A	RFMS	08-JUN-89
SW095	TRG	SW095004	MAGNESIUM	91.50	MG/L		V	5000	A	RFME	05-JUL-89
SW095	TRG	SW095004	MAGNESIUM	95.80	MG/L		V	5000	A	RFMS	05-JUL-89
SW095	TRG	SW095005	MAGNESIUM	90.80	MG/L		V	5000	A	RFME	10-AUG-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095005	MAGNESIUM	96.30	MG/L			V 5000	A	RFMS	10-AUG-89
SW095	TRG	SW095006	MAGNESIUM	69.90	MG/L			V 5000	A	RFMS	18-SEP-89
SW095	TRG	SW095007	MAGNESIUM	107.00	MG/L			A 5000	A	RFME	10-OCT-89
SW095	TRG	SW095007	MAGNESIUM	106.00	MG/L			A 5000	A	RFMS	10-OCT-89
SW095	TRG	SW095008	MAGNESIUM	95.20	MG/L			5000		RFME	02-NOV-89
SW095	TRG	SW095008	MAGNESIUM	96.00	MG/L			5000		RFMS	02-NOV-89
SW095	TRG	SW095009	MAGNESIUM	97.80	MG/L			5000		RFME	07-DEC-89
SW095	TRG	SW095009	MAGNESIUM	98.20	MG/L			5000		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	MAGNESIUM	65000	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	MAGNESIUM	75800	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	MAGNESIUM	76000	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	MAGNESIUM	63100	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	MAGNESIUM	124000	UG/L			5000		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	MAGNESIUM	107000	UG/L			5000		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	MAGNESIUM	80400.00	UG/L			5000		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	MAGNESIUM	79900.00	UG/L			5000		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	MAGNESIUM	105000.00	UG/L			5000		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	MAGNESIUM	107000.00	UG/L			5000		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	MAGNESIUM	30200.00	UG/L			5000		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	MAGNESIUM	35200.00	UG/L			5000		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	MAGNESIUM	79300.00	UG/L			5000		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	MAGNESIUM	85900.00	UG/L			5000		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	MANGANESE	0.015	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	MANGANESE	0.015	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	MANGANESE	0.015	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	MANGANESE	0.015	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	MANGANESE	0.015	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	MANGANESE	0.015	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	MANGANESE	.0334	MG/L			A 15.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	MANGANESE	.0202	MG/L			V 15.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	MANGANESE	.0189	MG/L			V 15.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	MANGANESE	.0203	MG/L			A 15.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	MANGANESE	.0168	MG/L			A 15.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	MANGANESE	.0318	MG/L			A 15.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	MANGANESE	.0179	MG/L			A 15.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	MANGANESE	.0150	MG/L		U	A 15.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	MANGANESE	.0150	MG/L		U	A 15.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	MANGANESE	.0150	MG/L		U	A 15.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	MANGANESE	.0161	MG/L			A 15.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	MANGANESE	.0165	MG/L			A 15.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	MANGANESE	.0307	MG/L			15.0		RFME	02-NOV-89
SW095	TRG	SW095008	MANGANESE	.0256	MG/L			15.0		RFMS	02-NOV-89
SW095	TRG	SW095009	MANGANESE	.0150	MG/L		U	15.0		RFME	07-DEC-89
SW095	TRG	SW095009	MANGANESE	.0150	MG/L		U	15.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	MANGANESE	15.9	UG/L			15		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	MANGANESE	35.3	UG/L			15		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	MANGANESE	16.9	UG/L			15		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	MANGANESE	17.9	UG/L			15		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	MANGANESE	15	UG/L		U	15		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	MANGANESE	15	UG/L		U	15		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	MANGANESE	3.10	UG/L		B	15		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	MANGANESE	5.30	UG/L		B	15		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	MANGANESE	2.90	UG/L		B	15		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	MANGANESE	8.80	UG/L		B	15		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	MANGANESE	5.50	UG/L		B	15		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	MANGANESE	25.80	UG/L			15		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	MANGANESE	6.50	UG/L		B	15		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	MANGANESE	5.30	UG/L		B	15		DMETCLPTAL	22-MAY-91

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW88A086	MERCURY	0.0002	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	MERCURY	0.0002	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	MERCURY	0.0002	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW88A086	MERCURY	0.0002	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	MERCURY	0.0002	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	MERCURY	0.0002	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW095001	MERCURY	.0002	MG/L		U	A 0.20	A	RFME	27-MAR-89
SW095	TRG	SW095002	MERCURY	.0002	MG/L		U	V 0.20	A	RFME	22-MAY-89
SW095	TRG	SW095002	MERCURY	.0002	MG/L		U	V 0.20	A	RFMS	22-MAY-89
SW095	TRG	SW095003	MERCURY	.0002	MG/L		U	V 0.20	A	RFME	08-JUN-89
SW095	TRG	SW095003	MERCURY	.0002	MG/L		U	V 0.20	A	RFMS	08-JUN-89
SW095	TRG	SW095004	MERCURY	.0002	MG/L		U	V 0.20	A	RFME	05-JUL-89
SW095	TRG	SW095004	MERCURY	.0002	MG/L		U	V 0.20	A	RFMS	05-JUL-89
SW095	TRG	SW095005	MERCURY	.0004	MG/L			V 0.20	A	RFME	10-AUG-89
SW095	TRG	SW095005	MERCURY	.0002	MG/L		U	V 0.20	A	RFMS	10-AUG-89
SW095	TRG	SW095006	MERCURY	.0002	MG/L		U	A 0.20	A	RFMS	18-SEP-89
SW095	TRG	SW095007	MERCURY	.0002	MG/L		U	V 0.20	A	RFME	10-OCT-89
SW095	TRG	SW095007	MERCURY	.0002	MG/L		U	V 0.20	A	RFMS	10-OCT-89
SW095	TRG	SW095008	MERCURY	.0002	MG/L		U	0.20		RFME	02-NOV-89
SW095	TRG	SW095008	MERCURY	.0002	MG/L		U	0.20		RFMS	02-NOV-89
SW095	TRG	SW095009	MERCURY	.0002	MG/L		U	0.20		RFME	07-DEC-89
SW095	TRG	SW095009	MERCURY	.0002	MG/L		U	0.20		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	MERCURY	0.2	UG/L		U	0.2		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	MERCURY	0.2	UG/L		U	0.2		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	MERCURY	0.21	UG/L			0.2		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	MERCURY	0.21	UG/L			0.2		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	MERCURY	0.2	UG/L		U	0.2		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	MERCURY	0.2	UG/L		U	0.2		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	MERCURY	0.20	UG/L		U		0	DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	MERCURY	0.20	UG/L		U		0	SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	MERCURY	0.44	UG/L		N		0	DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	MERCURY	0.63	UG/L		N		0	SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	MERCURY	0.20	UG/L		U		0	DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	MERCURY	0.20	UG/L		U		0	SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	MERCURY	0.80	UG/L		UN*		0	SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	MERCURY	0.20	UG/L		N*		0	DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	MOLYBDENUM	NA	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	MOLYBDENUM	NA	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	MOLYBDENUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	MOLYBDENUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	MOLYBDENUM	NA	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	MOLYBDENUM	NA	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW095001	MOLYBDENUM	.100	MG/L		U	V 100	A	RFME	27-MAR-89
SW095	TRG	SW095002	MOLYBDENUM	.100	MG/L		U	V 100	A	RFME	22-MAY-89
SW095	TRG	SW095002	MOLYBDENUM	.100	MG/L		U	V 100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	MOLYBDENUM	.100	MG/L		U	V 100	A	RFME	08-JUN-89
SW095	TRG	SW095003	MOLYBDENUM	.100	MG/L		U	V 100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	MOLYBDENUM	.100	MG/L		U	V 100	A	RFME	05-JUL-89
SW095	TRG	SW095004	MOLYBDENUM	.100	MG/L		U	V 100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	MOLYBDENUM	.100	MG/L		U	V 100	A	RFME	10-AUG-89
SW095	TRG	SW095005	MOLYBDENUM	.100	MG/L		U	V 100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	MOLYBDENUM	.100	MG/L		U	A 100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	MOLYBDENUM	.100	MG/L		U	A 100	A	RFME	10-OCT-89
SW095	TRG	SW095007	MOLYBDENUM	.100	MG/L		U	A 100	A	RFMS	10-OCT-89
SW095	TRG	SW095008	MOLYBDENUM	.100	MG/L		U	100		RFME	02-NOV-89
SW095	TRG	SW095008	MOLYBDENUM	.100	MG/L		U	100		RFMS	02-NOV-89
SW095	TRG	SW095009	MOLYBDENUM	.100	MG/L		U	100		RFME	07-DEC-89
SW095	TRG	SW095009	MOLYBDENUM	.100	MG/L		U	100		RFMS	07-DEC-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095W053090A	MOLYBDENUM	100	UG/L		U	100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	MOLYBDENUM	100	UG/L		U	100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	MOLYBDENUM	100	UG/L		U	100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	MOLYBDENUM	100	UG/L		U	100		DMETNOCLP	30-MAY-90
SW095	TRG	SW00157WC	MOLYBDENUM	100	UG/L		U	100		DMETNOCLP	26-JUN-90
SW095	TRG	SW00157WC	MOLYBDENUM	100	UG/L		U	100		SMETNOCLP	26-JUN-90
SW095	TRG	SW00355WC	MOLYBDENUM	20.70	UG/L		B	200		DMETNOCLP	26-SEP-90
SW095	TRG	SW00355WC	MOLYBDENUM	21.60	UG/L		B	200		SMETNOCLP	26-SEP-90
SW095	TRG	SW00963WC	MOLYBDENUM	4.10	UG/L		B	200		DMETNOCLP	14-MAR-91
SW095	TRG	SW00963WC	MOLYBDENUM	8.40	UG/L		B	200		SMETNOCLP	14-MAR-91
SW095	TRG	SW01065WC	MOLYBDENUM	5.10	UG/L		B	200		DMETNOCLP	11-APR-91
SW095	TRG	SW01065WC	MOLYBDENUM	4.30	UG/L		B	200		SMETNOCLP	11-APR-91
SW095	TRG	SW01172WC	MOLYBDENUM	6.40	UG/L		BN	200		SMETNOCLP	22-MAY-91
SW095	TRG	SW01172WC	MOLYBDENUM	6.00	UG/L		BN	200		DMETNOCLP	22-MAY-91
SW095	TRG	SW88A086	NICKEL	0.040	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	NICKEL	0.040	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	NICKEL	0.040	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	NICKEL	0.040	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	NICKEL	0.040	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW88A086	NICKEL	0.040	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	NICKEL	.0400	MG/L		U	V 40.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	NICKEL	.0400	MG/L		U	V 40.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	NICKEL	.0400	MG/L		U	V 40.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	NICKEL	.0400	MG/L		U	V 40.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	NICKEL	.0400	MG/L		U	A 40.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	NICKEL	.0400	MG/L		U	V 40.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	NICKEL	.0400	MG/L		U	V 40.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	NICKEL	.0400	MG/L		U	40.0		RFME	02-NOV-89
SW095	TRG	SW095008	NICKEL	.0400	MG/L		U	40.0		RFMS	02-NOV-89
SW095	TRG	SW095009	NICKEL	.0400	MG/L		U	40.0		RFME	07-DEC-89
SW095	TRG	SW095009	NICKEL	.0400	MG/L		U	40.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	NICKEL	40	UG/L		U	40		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	NICKEL	40	UG/L		U	40		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	NICKEL	40	UG/L		U	40		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	NICKEL	40	UG/L		U	40		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	NICKEL	40	UG/L		U	40		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	NICKEL	40	UG/L		U	40		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	NICKEL	18.00	UG/L		B	40		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	NICKEL	19.40	UG/L		B	40		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	NICKEL	4.00	UG/L		U	40		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	NICKEL	4.00	UG/L		U	40		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	NICKEL	4.60	UG/L		B	40		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	NICKEL	4.70	UG/L		B	40		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	NICKEL	8.10	UG/L		B	40		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	NICKEL	5.20	UG/L		B	40		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	POTASSIUM	101	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	POTASSIUM	111	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	POTASSIUM	102	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	POTASSIUM	102	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	POTASSIUM	106	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	POTASSIUM	108	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	POTASSIUM	63.80	MG/L			V 5000	A	RFME	27-MAR-89
SW095	TRG	SW095002	POTASSIUM	76.90	MG/L			A 5000	A	RFME	22-MAY-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095002	POTASSIUM	76.50	MG/L			A 5000	A	RFMS	22-MAY-89
SW095	TRG	SW095003	POTASSIUM	73.10	MG/L			V 5000	A	RFME	08-JUN-89
SW095	TRG	SW095003	POTASSIUM	74.40	MG/L			V 5000	A	RFMS	08-JUN-89
SW095	TRG	SW095004	POTASSIUM	80.50	MG/L			V 5000	A	RFME	05-JUL-89
SW095	TRG	SW095004	POTASSIUM	84.10	MG/L			V 5000	A	RFMS	05-JUL-89
SW095	TRG	SW095005	POTASSIUM	75.70	MG/L			V 5000	A	RFME	10-AUG-89
SW095	TRG	SW095005	POTASSIUM	78.60	MG/L			V 5000	A	RFMS	10-AUG-89
SW095	TRG	SW095006	POTASSIUM	73.80	MG/L			A 5000	A	RFMS	18-SEP-89
SW095	TRG	SW095007	POTASSIUM	91.20	MG/L			V 5000	A	RFME	10-OCT-89
SW095	TRG	SW095007	POTASSIUM	91.30	MG/L			V 5000	A	RFMS	10-OCT-89
SW095	TRG	SW095008	POTASSIUM	124.00	MG/L			5000		RFME	02-NOV-89
SW095	TRG	SW095008	POTASSIUM	128.00	MG/L			5000		RFMS	02-NOV-89
SW095	TRG	SW095009	POTASSIUM	64.40	MG/L			5000		RFME	07-DEC-89
SW095	TRG	SW095009	POTASSIUM	65.20	MG/L			5000		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	POTASSIUM	55200	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	POTASSIUM	53200	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	POTASSIUM	72600	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	POTASSIUM	73900	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	POTASSIUM	85100	UG/L			5000		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	POTASSIUM	75000	UG/L			5000		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	POTASSIUM	57800.00	UG/L			5000		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	POTASSIUM	57800.00	UG/L			5000		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	POTASSIUM	63200.00	UG/L			5000		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	POTASSIUM	64300.00	UG/L			5000		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	POTASSIUM	23700.00	UG/L			5000		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	POTASSIUM	23600.00	UG/L			5000		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	POTASSIUM	63400.00	UG/L			5000		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	POTASSIUM	68800.00	UG/L			5000		DMETCLPTAL	22-MAY-91
SW095	S	SW88A086	SELENIUM	0.008	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	SELENIUM	0.009	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	SELENIUM	0.009	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	SELENIUM	0.010	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	SELENIUM	0.009	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	SELENIUM	0.008	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW095001	SELENIUM	.0118	MG/L			A 10.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	SELENIUM	.0105	MG/L			A 5.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	SELENIUM	.0106	MG/L			A 10.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	SELENIUM	.0126	MG/L			V 10.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	SELENIUM	.0164	MG/L			V 10.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	SELENIUM	.0100	MG/L		U	V 10.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	SELENIUM	.0100	MG/L		U	V 10.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	SELENIUM	.0144	MG/L			V 10.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	SELENIUM	.0170	MG/L			V 10.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	SELENIUM	.0050	MG/L		U	A 5.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	SELENIUM	.0100	MG/L		U	A 10.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	SELENIUM	.0150	MG/L			A 10.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	SELENIUM	.0100	MG/L		U	10.0		RFME	02-NOV-89
SW095	TRG	SW095008	SELENIUM	.0060	MG/L			5.0		RFMS	02-NOV-89
SW095	TRG	SW095009	SELENIUM	.0128	MG/L			10.0		RFME	07-DEC-89
SW095	TRG	SW095009	SELENIUM	.0142	MG/L			10.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	SELENIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	SELENIUM	5	UG/L		U	5		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	SELENIUM	13.8	UG/L			10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	SELENIUM	10.8	UG/L			10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	SELENIUM	14.2	UG/L			10		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	SELENIUM	8.4	UG/L			5		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	SELENIUM	4.50	UG/L		B+*	5		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	SELENIUM	2.00	UG/L		BWN	5		SMETCLPTCL	26-SEP-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00963WC	SELENIUM	8.10	UG/L		SN	5		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	SELENIUM	6.70	UG/L		SN	5		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	SELENIUM	2.00	UG/L		BWN	5		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	SELENIUM	2.00	UG/L		BWN	5		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	SELENIUM	7.90	UG/L		+N	5		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	SELENIUM	9.00	UG/L		SN	5		DMETCLPTAL	22-MAY-91
SW095	TRG	SW095W053090A	SILICON	4620	UG/L			100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	SILICON	5350	UG/L			100		SMETNOCLP	30-MAY-90
SW095	TRG	SW00450WC	SILICON	6880	UG/L					SMETCLPTCL	24-OCT-90
SW095	TRG	SW88A086	SILVER	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	SILVER	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	SILVER	0.010	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	SILVER	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	SILVER	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	SILVER	0.010	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	SILVER	.0100	MG/L		U	A 10.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	SILVER	.0100	MG/L		U	V 10.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	SILVER	.0100	MG/L		U	V 10.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	SILVER	.0100	MG/L		U	V 10.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	SILVER	.0100	MG/L		U	V 10.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	SILVER	.0100	MG/L		U	R 10.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	SILVER	.0100	MG/L		U	R 10.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	SILVER	.0100	MG/L		U	V 10.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	SILVER	.0100	MG/L		U	V 10.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	SILVER	.0100	MG/L		U	R 10.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	SILVER	.0100	MG/L		U	R 10.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	SILVER	.0100	MG/L		U	R 10.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	SILVER	.0100	MG/L		U	10.0		RFME	02-NOV-89
SW095	TRG	SW095008	SILVER	.0100	MG/L		U	10.0		RFMS	02-NOV-89
SW095	TRG	SW095009	SILVER	.0100	MG/L		U	10.0		RFME	07-DEC-89
SW095	TRG	SW095009	SILVER	.0100	MG/L		U	10.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	SILVER	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	SILVER	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	SILVER	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	SILVER	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	SILVER	10	UG/L		U	10		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	SILVER	10	UG/L		U	10		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	SILVER	3.60	UG/L		B	10		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	SILVER	5.20	UG/L		B	10		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	SILVER	5.20	UG/L		B	10		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	SILVER	7.60	UG/L		B	10		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	SILVER	5.60	UG/L		B	10		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	SILVER	5.00	UG/L		B	10		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	SILVER	2.00	UG/L		UN	10		DMETCLPTAL	22-MAY-91
SW095	TRG	SW01172WC	SILVER	2.00	UG/L		UN	10		SMETCLPTCL	22-MAY-91
SW095	TRG	SW88A086	SODIUM	520	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	SODIUM	530	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	SODIUM	530	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	SODIUM	520	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	SODIUM	520	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	SODIUM	530	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	SODIUM	460.00	MG/L			V 5000	A	RFME	27-MAR-89
SW095	TRG	SW095002	SODIUM	408.00	MG/L			A 5000	A	RFME	22-MAY-89
SW095	TRG	SW095002	SODIUM	424.00	MG/L			A 5000	A	RFMS	22-MAY-89
SW095	TRG	SW095003	SODIUM	373.00	MG/L			V 5000	A	RFME	08-JUN-89
SW095	TRG	SW095003	SODIUM	403.00	MG/L			V 5000	A	RFMS	08-JUN-89
SW095	TRG	SW095004	SODIUM	480.00	MG/L			V 5000	A	RFME	05-JUL-89
SW095	TRG	SW095004	SODIUM	509.00	MG/L			V 5000	A	RFMS	05-JUL-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095005	SODIUM	466.00	MG/L			A 5000	A	RFME	10-AUG-89
SW095	TRG	SW095005	SODIUM	478.00	MG/L			A 5000	A	RFMS	10-AUG-89
SW095	TRG	SW095006	SODIUM	399.00	MG/L			A 5000	A	RFMS	18-SEP-89
SW095	TRG	SW095007	SODIUM	578.00	MG/L			V 50000	A	RFME	10-OCT-89
SW095	TRG	SW095007	SODIUM	590.00	MG/L			V 50000	A	RFMS	10-OCT-89
SW095	TRG	SW095008	SODIUM	821.00	MG/L			50000		RFME	02-NOV-89
SW095	TRG	SW095008	SODIUM	789.00	MG/L			50000		RFMS	02-NOV-89
SW095	TRG	SW095009	SODIUM	464.00	MG/L			5000		RFME	07-DEC-89
SW095	TRG	SW095009	SODIUM	469.00	MG/L			5000		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	SODIUM	349000	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	SODIUM	339000	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	SODIUM	443000	UG/L			5000		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	SODIUM	447000	UG/L			5000		DMETCLPTAL	30-MAY-90
SW095	TRG	SW00157WC	SODIUM	585000	UG/L			5000		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	SODIUM	535000	UG/L			5000		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	SODIUM	348000.00	UG/L			5000		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	SODIUM	348000.00	UG/L			5000		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	SODIUM	471000.00	UG/L			5000		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	SODIUM	477000.00	UG/L			5000		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	SODIUM	202000.00	UG/L			5000		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	SODIUM	206000.00	UG/L			5000		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	SODIUM	463000.00	UG/L			5000		DMETCLPTAL	22-MAY-91
SW095	TRG	SW01172WC	SODIUM	422000.00	UG/L			5000		SMETCLPTCL	22-MAY-91
SW095	TRG	SW88A086	STRONTIUM	3.6	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	STRONTIUM	3.6	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	STRONTIUM	3.7	MG/L				N	RFME	12-JUL-88
SW095	TRG	SW88A086	STRONTIUM	3.5	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	STRONTIUM	3.6	MG/L				N	RFMS	12-JUL-88
SW095	S	SW88A086	STRONTIUM	3.7	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	STRONTIUM	2.83	MG/L			V 100	A	RFME	27-MAR-89
SW095	TRG	SW095002	STRONTIUM	2.71	MG/L			V 100	A	RFME	22-MAY-89
SW095	TRG	SW095002	STRONTIUM	2.69	MG/L			V 100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	STRONTIUM	2.21	MG/L			V 100	A	RFME	08-JUN-89
SW095	TRG	SW095003	STRONTIUM	2.21	MG/L			V 100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	STRONTIUM	2.77	MG/L			A 100	A	RFME	05-JUL-89
SW095	TRG	SW095004	STRONTIUM	2.93	MG/L			A 100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	STRONTIUM	2.67	MG/L			V 100	A	RFME	10-AUG-89
SW095	TRG	SW095005	STRONTIUM	2.83	MG/L			V 100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	STRONTIUM	2.11	MG/L			A 100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	STRONTIUM	3.14	MG/L			V 100	A	RFME	10-OCT-89
SW095	TRG	SW095007	STRONTIUM	3.12	MG/L			V 100	A	RFMS	10-OCT-89
SW095	TRG	SW095008	STRONTIUM	2.84	MG/L			100		RFME	02-NOV-89
SW095	TRG	SW095008	STRONTIUM	2.86	MG/L			100		RFMS	02-NOV-89
SW095	TRG	SW095009	STRONTIUM	3.30	MG/L			100		RFME	07-DEC-89
SW095	TRG	SW095009	STRONTIUM	3.36	MG/L			100		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	STRONTIUM	2000	UG/L			100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	STRONTIUM	2210	UG/L			100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	STRONTIUM	1940	UG/L			100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	STRONTIUM	2200	UG/L			100		DMETNOCLP	30-MAY-90
SW095	TRG	SW00157WC	STRONTIUM	3870	UG/L			100		DMETNOCLP	26-JUN-90
SW095	TRG	SW00157WC	STRONTIUM	3400	UG/L			100		SMETNOCLP	26-JUN-90
SW095	TRG	SW00355WC	STRONTIUM	2380.00	UG/L			200		DMETNOCLP	26-SEP-90
SW095	TRG	SW00355WC	STRONTIUM	2360.00	UG/L			200		SMETNOCLP	26-SEP-90
SW095	TRG	SW00963WC	STRONTIUM	3350.00	UG/L			200		DMETNOCLP	14-MAR-91
SW095	TRG	SW00963WC	STRONTIUM	3440.00	UG/L			200		SMETNOCLP	14-MAR-91
SW095	TRG	SW01065WC	STRONTIUM	965.00	UG/L			200		DMETNOCLP	11-APR-91
SW095	TRG	SW01065WC	STRONTIUM	1140.00	UG/L			200		SMETNOCLP	11-APR-91
SW095	TRG	SW01172WC	STRONTIUM	2530.00	UG/L			200		DMETNOCLP	22-MAY-91

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW01172WC	STRONTIUM	2380.00	UG/L			200		SMETNOCLP	22-MAY-91
SW095	TRG	SW88A086	THALLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	THALLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	THALLIUM	0.005	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	THALLIUM	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	THALLIUM	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	THALLIUM	0.005	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	THALLIUM	.100	MG/L		U	V 100	A	RFME	27-MAR-89
SW095	TRG	SW095002	THALLIUM	.0100	MG/L		U	A 10.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	THALLIUM	.0100	MG/L		U	A 10.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	THALLIUM	.0100	MG/L		U	A 10.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	THALLIUM	.0100	MG/L		U	A 10.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	THALLIUM	.0100	MG/L		U	A 10.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	THALLIUM	.0100	MG/L		U	A 10.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	THALLIUM	.0100	MG/L		U	A 10.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	THALLIUM	.0100	MG/L		U	A 10.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	THALLIUM	.100	MG/L		U	R 100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	THALLIUM	.0100	MG/L		U	A 10.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	THALLIUM	.0100	MG/L		U	R 10.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	THALLIUM	.0100	MG/L		U	10.0		RFME	02-NOV-89
SW095	TRG	SW095008	THALLIUM	.100	MG/L		U	100		RFMS	02-NOV-89
SW095	TRG	SW095009	THALLIUM	.0100	MG/L		U	10.0		RFME	07-DEC-89
SW095	TRG	SW095009	THALLIUM	.0100	MG/L		U	10.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	THALLIUM	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	THALLIUM	10	UG/L		U	10		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	THALLIUM	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	THALLIUM	10	UG/L		U	10		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	THALLIUM	10	UG/L		U	10		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	THALLIUM	10	UG/L		U	10		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	THALLIUM	2.00	UG/L		UWN	10		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	THALLIUM	2.00	UG/L		UWN	10		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	THALLIUM	1.00	UG/L		U	10		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	THALLIUM	1.00	UG/L		U	10		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	THALLIUM	1.00	UG/L		BW	10		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	THALLIUM	1.00	UG/L		U	10		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	THALLIUM	1.00	UG/L		U	10		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	THALLIUM	1.00	UG/L		U	10		DMETCLPTAL	22-MAY-91
SW095	TRG	SW095001	TIN	.100	MG/L		U	V 100	A	RFME	27-MAR-89
SW095	TRG	SW095002	TIN	.132	MG/L			V 100	A	RFME	22-MAY-89
SW095	TRG	SW095002	TIN	.148	MG/L			V 100	A	RFMS	22-MAY-89
SW095	TRG	SW095003	TIN	.144	MG/L			V 100	A	RFME	08-JUN-89
SW095	TRG	SW095003	TIN	.155	MG/L			V 100	A	RFMS	08-JUN-89
SW095	TRG	SW095004	TIN	.147	MG/L			V 100	A	RFME	05-JUL-89
SW095	TRG	SW095004	TIN	.127	MG/L			V 100	A	RFMS	05-JUL-89
SW095	TRG	SW095005	TIN	.100	MG/L		U	V 100	A	RFME	10-AUG-89
SW095	TRG	SW095005	TIN	.100	MG/L		U	V 100	A	RFMS	10-AUG-89
SW095	TRG	SW095006	TIN	.100	MG/L		U	A 100	A	RFMS	18-SEP-89
SW095	TRG	SW095007	TIN	.131	MG/L			A 100	A	RFME	10-OCT-89
SW095	TRG	SW095007	TIN	.128	MG/L			A 100	A	RFMS	10-OCT-89
SW095	TRG	SW095008	TIN	.130	MG/L			100		RFME	02-NOV-89
SW095	TRG	SW095008	TIN	.135	MG/L			100		RFMS	02-NOV-89
SW095	TRG	SW095009	TIN	.100	MG/L		U	100		RFME	07-DEC-89
SW095	TRG	SW095009	TIN	.100	MG/L		U	100		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	TIN	100	UG/L		U	100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	TIN	100	UG/L		U	100		DMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	TIN	100	UG/L		U	100		SMETNOCLP	30-MAY-90
SW095	TRG	SW095W053090A	TIN	100	UG/L		U	100		SMETNOCLP	30-MAY-90
SW095	TRG	SW00157WC	TIN	100	UG/L		U	100		DMETNOCLP	26-JUN-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00157WC	TIN	100	UG/L		U	100		SMETNOCLP	26-JUN-90
SW095	TRG	SW00355WC	TIN	67.20	UG/L		B	200		DMETNOCLP	26-SEP-90
SW095	TRG	SW00355WC	TIN	76.40	UG/L		B	200		SMETNOCLP	26-SEP-90
SW095	TRG	SW00963WC	TIN	68.30	UG/L		B	200		DMETNOCLP	14-MAR-91
SW095	TRG	SW00963WC	TIN	76.40	UG/L		B	200		SMETNOCLP	14-MAR-91
SW095	TRG	SW01065WC	TIN	41.30	UG/L		B	200		DMETNOCLP	11-APR-91
SW095	TRG	SW01065WC	TIN	54.40	UG/L		B	200		SMETNOCLP	11-APR-91
SW095	TRG	SW01172WC	TIN	34.30	UG/L		BN	200		DMETNOCLP	22-MAY-91
SW095	TRG	SW01172WC	TIN	33.80	UG/L		BN	200		SMETNOCLP	22-MAY-91
SW095	TRG	SW88A086	VANADIUM	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	VANADIUM	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	SD	SW88A086	VANADIUM	0.050	MG/L		U		N	RFME	12-JUL-88
SW095	TRG	SW88A086	VANADIUM	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	S	SW88A086	VANADIUM	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	SD	SW88A086	VANADIUM	0.050	MG/L		U		N	RFMS	12-JUL-88
SW095	TRG	SW095001	VANADIUM	.0500	MG/L		U	A 50.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	VANADIUM	.0500	MG/L		U	V 50.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	VANADIUM	.0500	MG/L		U	A 50.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	VANADIUM	.0500	MG/L		U	V 50.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	VANADIUM	.0500	MG/L		U	V 50.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	VANADIUM	.0500	MG/L		U	V 50.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	VANADIUM	.0500	MG/L		U	V 50.0	A	RFMS	05-JUL-89
SW095	TRG	SW095005	VANADIUM	.0500	MG/L		U	V 50.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	VANADIUM	.0500	MG/L		U	V 50.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	VANADIUM	.0500	MG/L		U	V 50.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	VANADIUM	.0500	MG/L		U	V 50.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	VANADIUM	.0500	MG/L		U	V 50.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	VANADIUM	.0500	MG/L		U	50.0		RFME	02-NOV-89
SW095	TRG	SW095008	VANADIUM	.0500	MG/L		U	50.0		RFMS	02-NOV-89
SW095	TRG	SW095009	VANADIUM	.0500	MG/L		U	50.0		RFME	07-DEC-89
SW095	TRG	SW095009	VANADIUM	.0500	MG/L		U	50.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	VANADIUM	50	UG/L		U	50		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	VANADIUM	50	UG/L		U	50		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	VANADIUM	50	UG/L		U	50		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	VANADIUM	50	UG/L		U	50		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	VANADIUM	50	UG/L		U	50		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	VANADIUM	50	UG/L		U	50		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	VANADIUM	15.90	UG/L		B	50		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	VANADIUM	17.60	UG/L		B	50		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	VANADIUM	9.90	UG/L		B	50		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	VANADIUM	12.80	UG/L		B	50		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	VANADIUM	10.70	UG/L		B	50		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	VANADIUM	14.30	UG/L		B	50		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	VANADIUM	6.30	UG/L		B	50		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	VANADIUM	5.20	UG/L		B	50		DMETCLPTAL	22-MAY-91
SW095	TRG	SW88A086	ZINC	0.040	MG/L				N	RFME	12-JUL-88
SW095	SD	SW88A086	ZINC	0.040	MG/L				N	RFME	12-JUL-88
SW095	S	SW88A086	ZINC	0.040	MG/L		U		N	RFME	12-JUL-88
SW095	S	SW88A086	ZINC	0.040	MG/L				N	RFMS	12-JUL-88
SW095	SD	SW88A086	ZINC	0.040	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW88A086	ZINC	0.050	MG/L				N	RFMS	12-JUL-88
SW095	TRG	SW095001	ZINC	.0391	MG/L			A 20.0	A	RFME	27-MAR-89
SW095	TRG	SW095002	ZINC	.0359	MG/L			A 20.0	A	RFME	22-MAY-89
SW095	TRG	SW095002	ZINC	.0475	MG/L			A 20.0	A	RFMS	22-MAY-89
SW095	TRG	SW095003	ZINC	.0557	MG/L			A 20.0	A	RFME	08-JUN-89
SW095	TRG	SW095003	ZINC	.0446	MG/L			A 20.0	A	RFMS	08-JUN-89
SW095	TRG	SW095004	ZINC	.0685	MG/L			A 20.0	A	RFME	05-JUL-89
SW095	TRG	SW095004	ZINC	.0400	MG/L			A 20.0	A	RFMS	05-JUL-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095005	ZINC	.0430	MG/L			A 20.0	A	RFME	10-AUG-89
SW095	TRG	SW095005	ZINC	.0461	MG/L			A 20.0	A	RFMS	10-AUG-89
SW095	TRG	SW095006	ZINC	.0357	MG/L			A 20.0	A	RFMS	18-SEP-89
SW095	TRG	SW095007	ZINC	.0246	MG/L			A 20.0	A	RFME	10-OCT-89
SW095	TRG	SW095007	ZINC	.0234	MG/L			A 20.0	A	RFMS	10-OCT-89
SW095	TRG	SW095008	ZINC	.0836	MG/L			20.0		RFME	02-NOV-89
SW095	TRG	SW095008	ZINC	.0565	MG/L			20.0		RFMS	02-NOV-89
SW095	TRG	SW095009	ZINC	.0200	MG/L		U	20.0		RFME	07-DEC-89
SW095	TRG	SW095009	ZINC	.0245	MG/L			20.0		RFMS	07-DEC-89
SW095	TRG	SW095W053090A	ZINC	20	UG/L			20		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ZINC	57.4	UG/L			20		DMETCLPTAL	30-MAY-90
SW095	TRG	SW095W053090A	ZINC	67.5	UG/L			20		SMETCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ZINC	116	UG/L			20		SMETCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ZINC	25.6	UG/L			20		DMETCLPTAL	26-JUN-90
SW095	TRG	SW00157WC	ZINC	86.4	UG/L			20		SMETCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ZINC	10.10	UG/L		B	20		DMETCLPTAL	26-SEP-90
SW095	TRG	SW00355WC	ZINC	73.30	UG/L		E	20		SMETCLPTCL	26-SEP-90
SW095	TRG	SW00963WC	ZINC	29.20	UG/L			20		DMETCLPTAL	14-MAR-91
SW095	TRG	SW00963WC	ZINC	28.20	UG/L			20		SMETCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ZINC	42.50	UG/L			20		DMETCLPTAL	11-APR-91
SW095	TRG	SW01065WC	ZINC	71.30	UG/L			20		SMETCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ZINC	36.10	UG/L			20		SMETCLPTCL	22-MAY-91
SW095	TRG	SW01172WC	ZINC	28.40	UG/L			20		DMETCLPTAL	22-MAY-91

Location ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt VA	Group	Smpl Date
SW095 TRG	SW095001	4,4'-DDD	1.0	UG/L		U	1.0	RFPP	27-MAR-89
SW095 TRG	SW095002	4,4'-DDD	0.50	UG/L		U	0.50	RFPP	22-MAY-89
SW095 TRG	SW095007	4,4'-DDD	0.10	UG/L		U	0.10	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	4,4'-DDD	0.1	UG/L		U	0.1	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	4,4'-DDD	0.10	UG/L		U	0.10	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	4,4'-DDD	0.10	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	4,4'-DDE	1.0	UG/L		U	1.0	RFPP	27-MAR-89
SW095 TRG	SW095002	4,4'-DDE	0.50	UG/L		U	0.50	RFPP	22-MAY-89
SW095 TRG	SW095007	4,4'-DDE	0.10	UG/L		U	0.10	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	4,4'-DDE	0.1	UG/L		U	0.1	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	4,4'-DDE	0.10	UG/L		U	0.10	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	4,4'-DDE	0.10	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	4,4'-DDT	1.0	UG/L		U	1.0	RFPP	27-MAR-89
SW095 TRG	SW095002	4,4'-DDT	0.50	UG/L		U	0.50	RFPP	22-MAY-89
SW095 TRG	SW095007	4,4'-DDT	0.10	UG/L		U	0.10	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	4,4'-DDT	0.1	UG/L		U	0.1	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	4,4'-DDT	0.10	UG/L		U	0.10	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	4,4'-DDT	0.10	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	ALDRIN	0.50	UG/L		U	0.50	RFPP	27-MAR-89
SW095 TRG	SW095002	ALDRIN	0.25	UG/L		U	0.25	RFPP	22-MAY-89
SW095 TRG	SW095007	ALDRIN	0.05	UG/L		U	0.05	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	ALDRIN	0.05	UG/L		U	0.05	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	ALDRIN	0.05	UG/L		U	0.05	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	ALDRIN	0.050	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW00157WC	ALKALINITY AS CACO3	310	MG/L			2	WQPL	26-JUN-90
SW095 TRG	SW095001	AROCLOR-1016	5.0	UG/L		U	5.0	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1016	2.5	UG/L		U	2.5	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1016	0.50	UG/L		U	0.50	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	AROCLOR-1016	0.5	UG/L		U	0.5	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	AROCLOR-1016	0.50	UG/L		U	0.50	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	AROCLOR-1016	0.50	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	AROCLOR-1221	5.0	UG/L		U	5.0	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1221	2.5	UG/L		U	2.5	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1221	0.50	UG/L		U	0.50	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	AROCLOR-1221	0.5	UG/L		U	0.5	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	AROCLOR-1221	0.50	UG/L		U	0.50	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	AROCLOR-1221	0.50	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	AROCLOR-1232	5.0	UG/L		U	5.0	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1232	2.5	UG/L		U	2.5	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1232	0.50	UG/L		U	0.50	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	AROCLOR-1232	0.5	UG/L		U	0.5	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	AROCLOR-1232	0.50	UG/L		U	0.50	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	AROCLOR-1232	0.50	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	AROCLOR-1242	5.0	UG/L		U	5.0	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1242	2.5	UG/L		U	2.5	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1242	0.50	UG/L		U	0.50	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	AROCLOR-1242	0.5	UG/L		U	0.5	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	AROCLOR-1242	0.50	UG/L		U	0.50	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	AROCLOR-1242	0.50	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	AROCLOR-1248	5.0	UG/L		U	5.0	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1248	2.5	UG/L		U	2.5	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1248	0.50	UG/L		U	0.50	RFPP	10-OCT-89
SW095 TRG	SW095W053090A	AROCLOR-1248	0.5	UG/L		U	0.5	PSTCLPTCL	30-MAY-90
SW095 TRG	SW00450WC	AROCLOR-1248	0.50	UG/L		U	0.50	PSTCLPTCL	24-OCT-90
SW095 TRG	SW01065WC	AROCLOR-1248	0.50	UG/L		U	0	PSTCLPTCL	11-APR-91
SW095 TRG	SW095001	AROCLOR-1254	10	UG/L		U	10	RFPP	27-MAR-89
SW095 TRG	SW095002	AROCLOR-1254	5.0	UG/L		U	5.0	RFPP	22-MAY-89
SW095 TRG	SW095007	AROCLOR-1254	1.0	UG/L		U	1.0	RFPP	10-OCT-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095W053090A	AROCLOR-1254	1	UG/L		U	1		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	AROCLOR-1254	1.00	UG/L		U	1.00		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	AROCLOR-1254	1.0	UG/L		U	1		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	AROCLOR-1260	10	UG/L		U	10		RFPP	27-MAR-89
SW095	TRG	SW095002	AROCLOR-1260	5.0	UG/L		U	5.0		RFPP	22-MAY-89
SW095	TRG	SW095007	AROCLOR-1260	1.0	UG/L		U	1.0		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	AROCLOR-1260	1	UG/L		U	1		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	AROCLOR-1260	1.00	UG/L		U	1.00		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	AROCLOR-1260	1.0	UG/L		U	1		PSTCLPTCL	11-APR-91
SW095	TRG	SW88A086	BICARBONATE	344	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	BICARBONATE	350	MG/L				V	RFIN	18-SEP-89
SW095	TRG	SW09590002	BICARBONATE	300	MG/L					RFIN	23-FEB-90
SW095	TRG	SW09590003	BICARBONATE	280	MG/L					RFIN	16-MAR-90
SW095	TRG	SW00157WC	BICARBONATE AS CACO3	310	MG/L			2		WQPL	26-JUN-90
SW095	TRG	SW00355WC	BICARBONATE AS CACO3	280	MG/L			1.0		WQPL	26-SEP-90
SW095	TRG	SW00450WC	BICARBONATE AS CACO3	260	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	BICARBONATE AS CACO3	300	MG/L			1.0		WQPL	19-NOV-90
SW095	TRG	SW00963WC	BICARBONATE AS CACO3	250	MG/L			1.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	BICARBONATE AS CACO3	150	MG/L			1.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	BICARBONATE AS CACO3	270	MG/L			1.0		WQPL	22-MAY-91
SW095	TRG	SW88A086	CARBONATE	1.0	MG/L		U			RFIN	12-JUL-88
SW095	TRG	SW095006	CARBONATE	5	MG/L		U		V	RFIN	18-SEP-89
SW095	TRG	SW09590002	CARBONATE	5	MG/L		U			RFIN	23-FEB-90
SW095	TRG	SW09590003	CARBONATE	5	MG/L		U			RFIN	16-MAR-90
SW095	TRG	SW00157WC	CARBONATE AS CACO3	2	MG/L		U	2		WQPL	26-JUN-90
SW095	TRG	SW00355WC	CARBONATE AS CACO3	0	MG/L			1.0		WQPL	26-SEP-90
SW095	TRG	SW00450WC	CARBONATE AS CACO3	1	MG/L		U			WQPL	24-OCT-90
SW095	TRG	SW00551WC	CARBONATE AS CACO3	0	MG/L			1.0		WQPL	19-NOV-90
SW095	TRG	SW00963WC	CARBONATE AS CACO3	0	MG/L			1.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	CARBONATE AS CACO3	0	MG/L			1.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	CARBONATE AS CACO3	1	MG/L		U	1.0		WQPL	22-MAY-91
SW095	TRG	SW88A086	CHLORIDE	133	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	CHLORIDE	84	MG/L				V	RFIN	18-SEP-89
SW095	TRG	SW09590002	CHLORIDE	170	MG/L					RFIN	23-FEB-90
SW095	TRG	SW09590003	CHLORIDE	110	MG/L					RFIN	16-MAR-90
SW095	TRG	SW00157WC	CHLORIDE	125	MG/L			50		WQPL	26-JUN-90
SW095	TRG	SW00355WC	CHLORIDE	120	MG/L			0.2		WQPL	26-SEP-90
SW095	TRG	SW00450WC	CHLORIDE	120	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	CHLORIDE	130	MG/L			0.2		WQPL	19-NOV-90
SW095	TRG	SW00963WC	CHLORIDE	130	MG/L			0.2		WQPL	14-MAR-91
SW095	TRG	SW01065WC	CHLORIDE	72	MG/L			0.2		WQPL	11-APR-91
SW095	TRG	SW01172WC	CHLORIDE	120	MG/L			0.2		WQPL	22-MAY-91
SW095	TRG	SW095W053090A	CYANIDE	10	UG/L		U	10		WQPL	30-MAY-90
SW095	TRG	SW095W053090A	CYANIDE	10	UG/L		U	10		WQPL	30-MAY-90
SW095	TRG	SW00157WC	CYANIDE	10	UG/L		U	10		WQPL	26-JUN-90
SW095	TRG	SW095001	DIELDRIN	1.0	UG/L		U	1.0		RFPP	27-MAR-89
SW095	TRG	SW095002	DIELDRIN	0.50	UG/L		U	0.50		RFPP	22-MAY-89
SW095	TRG	SW095007	DIELDRIN	0.10	UG/L		U	0.10		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	DIELDRIN	0.1	UG/L		U	0.1		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DIELDRIN	0.10	UG/L		U	0.10		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DIELDRIN	0.10	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW00963WC	DISSOLVED ORGANIC CARBON	5	MG/L			1.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	DISSOLVED ORGANIC CARBON	9	MG/L			1.0		WQPL	11-APR-91
SW095	TRG	SW095001	ENDOSULFAN I	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG	SW095002	ENDOSULFAN I	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG	SW095007	ENDOSULFAN I	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	ENDOSULFAN I	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	ENDOSULFAN I	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90

Location ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG SW01065WC	ENDOSULFAN I	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	ENDOSULFAN II	1.0	UG/L		U	1.0		RFPP	27-MAR-89
SW095	TRG SW095002	ENDOSULFAN II	0.50	UG/L		U	0.50		RFPP	22-MAY-89
SW095	TRG SW095007	ENDOSULFAN II	0.10	UG/L		U	0.10		RFPP	10-OCT-89
SW095	TRG SW095W053090A	ENDOSULFAN II	0.1	UG/L		U	0.1		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	ENDOSULFAN II	0.10	UG/L		U	0.10		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	ENDOSULFAN II	0.10	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	ENDOSULFAN SULFATE	1.0	UG/L		U	1.0		RFPP	27-MAR-89
SW095	TRG SW095002	ENDOSULFAN SULFATE	0.50	UG/L		U	0.50		RFPP	22-MAY-89
SW095	TRG SW095007	ENDOSULFAN SULFATE	0.10	UG/L		U	0.10		RFPP	10-OCT-89
SW095	TRG SW095W053090A	ENDOSULFAN SULFATE	0.1	UG/L		U	0.1		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	ENDOSULFAN SULFATE	0.10	UG/L		U	0.10		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	ENDOSULFAN SULFATE	0.10	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	ENDRIN	1.0	UG/L		U	1.0		RFPP	27-MAR-89
SW095	TRG SW095002	ENDRIN	0.50	UG/L		U	0.50		RFPP	22-MAY-89
SW095	TRG SW095007	ENDRIN	0.10	UG/L		U	0.10		RFPP	10-OCT-89
SW095	TRG SW095W053090A	ENDRIN	0.1	UG/L		U	0.1		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	ENDRIN	0.10	UG/L		U	0.10		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	ENDRIN	0.10	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	ENDRIN KETONE	1.0	UG/L		U	1.0		RFPP	27-MAR-89
SW095	TRG SW095002	ENDRIN KETONE	0.50	UG/L		U	0.50		RFPP	22-MAY-89
SW095	TRG SW095007	ENDRIN KETONE	0.10	UG/L		U	0.10		RFPP	10-OCT-89
SW095	TRG SW095W053090A	ENDRIN KETONE	0.1	UG/L		U	0.1		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	ENDRIN KETONE	0.10	UG/L		U	0.10		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	ENDRIN KETONE	0.10	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW00157WC	FLUORIDE	0.93	MG/L			0.1		WQPL	26-JUN-90
SW095	TRG SW00355WC	FLUORIDE	1.0	MG/L			0.1		WQPL	26-SEP-90
SW095	TRG SW00551WC	FLUORIDE	1.0	MG/L			0.1		WQPL	19-NOV-90
SW095	TRG SW00963WC	FLUORIDE	1.0	MG/L			0.1		WQPL	14-MAR-91
SW095	TRG SW01065WC	FLUORIDE	0.8	MG/L			0.1		WQPL	11-APR-91
SW095	TRG SW01172WC	FLUORIDE	1.2	MG/L			0.1		WQPL	22-MAY-91
SW095	TRG SW00450WC	FLUORIDE, SOLUBLE	.57	MG/L					WQPL	24-OCT-90
SW095	TRG SW095001	HEPTACHLOR	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG SW095002	HEPTACHLOR	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG SW095007	HEPTACHLOR	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG SW095W053090A	HEPTACHLOR	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	HEPTACHLOR	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	HEPTACHLOR	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	HEPTACHLOR EPOXIDE	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG SW095002	HEPTACHLOR EPOXIDE	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG SW095007	HEPTACHLOR EPOXIDE	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG SW095W053090A	HEPTACHLOR EPOXIDE	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	HEPTACHLOR EPOXIDE	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	HEPTACHLOR EPOXIDE	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW095001	METHOXYCHLOR	5.0	UG/L		U	5.0		RFPP	27-MAR-89
SW095	TRG SW095002	METHOXYCHLOR	2.5	UG/L		U	2.5		RFPP	22-MAY-89
SW095	TRG SW095007	METHOXYCHLOR	0.50	UG/L		U	0.50		RFPP	10-OCT-89
SW095	TRG SW095W053090A	METHOXYCHLOR	0.5	UG/L		U	0.5		PSTCLPTCL	30-MAY-90
SW095	TRG SW00450WC	METHOXYCHLOR	0.50	UG/L		U	0.50		PSTCLPTCL	24-OCT-90
SW095	TRG SW01065WC	METHOXYCHLOR	0.50	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG SW88A086	NITRATE	3205.148						RFIN	12-JUL-88
SW095	TRG SW095006	NITRATE	1859.340						RFIN	18-SEP-89
SW095	TRG SW88A086	NITRATE/NITRITE	724	MG/L					RFIN	12-JUL-88
SW095	TRG SW095006	NITRATE/NITRITE	420	MG/L				V	RFIN	18-SEP-89
SW095	TRG SW09590002	NITRATE/NITRITE	690	MG/L					RFIN	23-FEB-90
SW095	TRG SW09590003	NITRATE/NITRITE	330	MG/L					RFIN	16-MAR-90
SW095	TRG SW00157WC	NITRATE/NITRITE	587	MG/L			50		WQPL	26-JUN-90
SW095	TRG SW00355WC	NITRATE/NITRITE	360	MG/L			0.02		WQPL	26-SEP-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00450WC	NITRATE/NITRITE	470	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	NITRATE/NITRITE	410	MG/L			0.02		WQPL	19-NOV-90
SW095	TRG	SW00963WC	NITRATE/NITRITE	620	MG/L			0.02		WQPL	14-MAR-91
SW095	TRG	SW01065WC	NITRATE/NITRITE	190	MG/L			0.02		WQPL	11-APR-91
SW095	TRG	SW01172WC	NITRATE/NITRITE	440	MG/L			0.02		WQPL	22-MAY-91
SW095	TRG	SW00355WC	NITRITE	0.02	MG/L		U	0.02		WQPL	26-SEP-90
SW095	TRG	SW00450WC	NITRITE	.01	MG/L		U			WQPL	24-OCT-90
SW095	TRG	SW00551WC	NITRITE	0.02	MG/L		U	0.02		WQPL	19-NOV-90
SW095	TRG	SW00963WC	NITRITE	0.04	MG/L			0.02		WQPL	14-MAR-91
SW095	TRG	SW01065WC	NITRITE	0.06	MG/L			0.02		WQPL	11-APR-91
SW095	TRG	SW01172WC	NITRITE	0.12	MG/L			0.02		WQPL	22-MAY-91
SW095	TRG	SW88A086	OIL AND GREASE	11	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	OIL AND GREASE	1	MG/L		U		V	RFIN	18-SEP-89
SW095	TRG	SW09590002	OIL AND GREASE	1	MG/L		U			RFIN	23-FEB-90
SW095	TRG	SW09590003	OIL AND GREASE	1	MG/L		U			RFIN	16-MAR-90
SW095	TRG	SW00157WC	OIL AND GREASE	5	MG/L		U	5		WQPL	26-JUN-90
SW095	TRG	SW00355WC	OIL AND GREASE	0.5	MG/L			0.2		WQPL	26-SEP-90
SW095	TRG	SW00963WC	OIL AND GREASE	0.7	MG/L			0.2		WQPL	14-MAR-91
SW095	TRG	SW01065WC	OIL AND GREASE	1.1	MG/L			0.2		WQPL	11-APR-91
SW095	TRG	SW01172WC	OIL AND GREASE	0.4	MG/L			0.2		WQPL	22-MAY-91
SW095	TRG	SW00963WC	PARATHION, ETHYL	0.01	MG/L		U	0.01		WQPL	14-MAR-91
SW095	TRG	SW01065WC	PARATHION, ETHYL	0.11	MG/L			0.01		WQPL	11-APR-91
SW095	TRG	SW01172WC	PARATHION, ETHYL	0.01	MG/L			0.01		WQPL	22-MAY-91
SW095	TRG	SW00355WC	PHOSPHATE	0.05	MG/L			0.01		WQPL	26-SEP-90
SW095	TRG	SW00450WC	PHOSPHATE	.03	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	PHOSPHATE	0.04	MG/L			0.01		WQPL	19-NOV-90
SW095	TRG	SW00963WC	PHOSPHATE	0.02	MG/L			0.01		WQPL	14-MAR-91
SW095	TRG	SW01065WC	PHOSPHATE	0.16	MG/L			0.01		WQPL	11-APR-91
SW095	TRG	SW01172WC	PHOSPHATE	0.05	MG/L			0.01		WQPL	22-MAY-91
SW095	TRG	SW00450WC	PHOSPHORUS	.09	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00355WC	SILICA, DISSOLVED	7.8	MG/L			0.4		WQPL	26-SEP-90
SW095	TRG	SW00551WC	SILICA, DISSOLVED	6.8	MG/L			0.4		WQPL	19-NOV-90
SW095	TRG	SW00963WC	SILICA, DISSOLVED	6.6	MG/L			0.4		WQPL	14-MAR-91
SW095	TRG	SW01065WC	SILICA, DISSOLVED	4.5	MG/L			0.4		WQPL	11-APR-91
SW095	TRG	SW01172WC	SILICA, DISSOLVED	6.4	MG/L			0.4		WQPL	22-MAY-91
SW095	TRG	SW88A086	SPECIFIC CONDUCTIVITY	1000	UMHOS					RFIN	12-JUL-88
SW095	TRG	SW88A086	SULFATE	218	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	SULFATE	170	MG/L				V	RFIN	18-SEP-89
SW095	TRG	SW09590002	SULFATE	170	MG/L					RFIN	23-FEB-90
SW095	TRG	SW09590003	SULFATE	110	MG/L					RFIN	16-MAR-90
SW095	TRG	SW00157WC	SULFATE	187	MG/L			25		WQPL	26-JUN-90
SW095	TRG	SW00355WC	SULFATE	180	MG/L			2.0		WQPL	26-SEP-90
SW095	TRG	SW00450WC	SULFATE	200	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	SULFATE	170	MG/L			2.0		WQPL	19-NOV-90
SW095	TRG	SW00963WC	SULFATE	160	MG/L			2.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	SULFATE	120	MG/L			2.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	SULFATE	170	MG/L			2.0		WQPL	22-MAY-91
SW095	TRG	SW00963WC	SULFIDE	2	MG/L			2.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	SULFIDE	1	MG/L		U	2.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	SULFIDE	1	MG/L		U	2.0		WQPL	22-MAY-91
SW095	TRG	SW88A086	TOTAL DISSOLVED SOLIDS	4555	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	TOTAL DISSOLVED SOLIDS	3400	MG/L				A	RFIN	18-SEP-89
SW095	TRG	SW09590002	TOTAL DISSOLVED SOLIDS	4400	MG/L					RFIN	23-FEB-90
SW095	TRG	SW09590003	TOTAL DISSOLVED SOLIDS	2700	MG/L					RFIN	16-MAR-90
SW095	TRG	SW00157WC	TOTAL DISSOLVED SOLIDS	4560	MG/L			5		WQPL	26-JUN-90
SW095	TRG	SW00355WC	TOTAL DISSOLVED SOLIDS	3200	MG/L			10.0		WQPL	26-SEP-90
SW095	TRG	SW00450WC	TOTAL DISSOLVED SOLIDS	3790	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	TOTAL DISSOLVED SOLIDS	3800	MG/L			10.0		WQPL	19-NOV-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00963WC	TOTAL DISSOLVED SOLIDS	4300	MG/L			10.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	TOTAL DISSOLVED SOLIDS	1500	MG/L			10.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	TOTAL DISSOLVED SOLIDS	3700	MG/L			10.0		WQPL	22-MAY-91
SW095	TRG	SW00963WC	TOTAL ORGANIC CARBON	6	MG/L			1.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	TOTAL ORGANIC CARBON	9	MG/L			1.0		WQPL	11-APR-91
SW095	TRG	SW88A086	TOTAL SUSPENDED SOLIDS	21	MG/L					RFIN	12-JUL-88
SW095	TRG	SW095006	TOTAL SUSPENDED SOLIDS	5	MG/L		U		A	RFIN	18-SEP-89
SW095	TRG	SW09590002	TOTAL SUSPENDED SOLIDS	94	MG/L					RFIN	23-FEB-90
SW095	TRG	SW09590003	TOTAL SUSPENDED SOLIDS	6	MG/L					RFIN	16-MAR-90
SW095	TRG	SW00157WC	TOTAL SUSPENDED SOLIDS	5	MG/L		U	5		WQPL	26-JUN-90
SW095	TRG	SW00355WC	TOTAL SUSPENDED SOLIDS	7	MG/L			4.0		WQPL	26-SEP-90
SW095	TRG	SW00450WC	TOTAL SUSPENDED SOLIDS	7	MG/L					WQPL	24-OCT-90
SW095	TRG	SW00551WC	TOTAL SUSPENDED SOLIDS	11	MG/L			4.0		WQPL	19-NOV-90
SW095	TRG	SW00963WC	TOTAL SUSPENDED SOLIDS	4	MG/L		U	4.0		WQPL	14-MAR-91
SW095	TRG	SW01065WC	TOTAL SUSPENDED SOLIDS	48	MG/L			4.0		WQPL	11-APR-91
SW095	TRG	SW01172WC	TOTAL SUSPENDED SOLIDS	24	MG/L			4.0		WQPL	22-MAY-91
SW095	TRG	SW095001	TOXAPHENE	10	UG/L		U	10		RFPP	27-MAR-89
SW095	TRG	SW095002	TOXAPHENE	5.0	UG/L		U	5.0		RFPP	22-MAY-89
SW095	TRG	SW095007	TOXAPHENE	1.0	UG/L		U	1.0		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	TOXAPHENE	1	UG/L		U	1		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	TOXAPHENE	1.00	UG/L		U	1.00		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	TOXAPHENE	1.0	UG/L		U	1		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	alpha-BHC	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG	SW095002	alpha-BHC	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG	SW095007	alpha-BHC	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	alpha-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	alpha-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	alpha-BHC	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	alpha-CHLORDANE	5.0	UG/L		U	5.0		RFPP	27-MAR-89
SW095	TRG	SW095002	alpha-CHLORDANE	2.5	UG/L		U	2.5		RFPP	22-MAY-89
SW095	TRG	SW095007	alpha-CHLORDANE	0.50	UG/L		U	0.50		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	alpha-CHLORDANE	0.5	UG/L		U	0.5		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	alpha-CHLORDANE	0.50	UG/L		U	0.50		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	alpha-CHLORDANE	0.50	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	beta-BHC	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG	SW095002	beta-BHC	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG	SW095007	beta-BHC	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	beta-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	beta-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	beta-BHC	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	delta-BHC	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG	SW095002	delta-BHC	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG	SW095007	delta-BHC	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	delta-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	delta-BHC	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	delta-BHC	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	gamma-BHC (LINDANE)	0.50	UG/L		U	0.50		RFPP	27-MAR-89
SW095	TRG	SW095002	gamma-BHC (LINDANE)	0.25	UG/L		U	0.25		RFPP	22-MAY-89
SW095	TRG	SW095007	gamma-BHC (LINDANE)	0.05	UG/L		U	0.05		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	gamma-BHC (LINDANE)	0.05	UG/L		U	0.05		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	gamma-BHC (LINDANE)	0.05	UG/L		U	0.05		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	gamma-BHC (LINDANE)	0.050	UG/L		U	0		PSTCLPTCL	11-APR-91
SW095	TRG	SW095001	gamma-CHLORDANE	5.0	UG/L		U	5.0		RFPP	27-MAR-89
SW095	TRG	SW095002	gamma-CHLORDANE	2.5	UG/L		U	2.5		RFPP	22-MAY-89
SW095	TRG	SW095007	gamma-CHLORDANE	0.50	UG/L		U	0.50		RFPP	10-OCT-89
SW095	TRG	SW095W053090A	gamma-CHLORDANE	0.5	UG/L		U	0.5		PSTCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	gamma-CHLORDANE	0.50	UG/L		U	0.50		PSTCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	gamma-CHLORDANE	0.50	UG/L		U	0		PSTCLPTCL	11-APR-91

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt VA	Group	Smpl Date
SW095	TRG	SW88A086	pH	6.99	PHUNIT				RFIN	12-JUL-88
SW095	TRG	SW095006	pH	7.5	PHUNIT				RFIN	18-SEP-89
SW095	TRG	SW09590002	pH	7.8	PHUNIT				RFIN	23-FEB-90
SW095	TRG	SW09590003	pH	7.7	PHUNIT				RFIN	16-MAR-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095001 FILTERED	AMERICIUM-241	-0.01	PCI/L	0.03				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	AMERICIUM-241	2.2	PCI/L	0.1				RFRA	27-MAR-89
SW095	TRG	SW095002	AMERICIUM-241	0.00	PCI/L	0.02		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	AMERICIUM-241	0.02	PCI/L	0.01		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	AMERICIUM-241	0.02	PCI/L	0.01		0.009		RFRA	18-SEP-89
SW095		SW00355WC	AMERICIUM-241	.02142	PC/L	.0081987		.005		TRADS	26-SEP-90
SW095		SW00355WC	AMERICIUM-241	.02142	PC/L	.0081987		.005		TRADS	26-SEP-90
SW095	TRG	SW00450WC	AMERICIUM-241	.3000	PCI/L		U	.01		DRADS	24-OCT-90
SW095	TRG	SW00551WC	AMERICIUM-241	N.A.	PCI/L			.01		DRADS	19-NOV-90
SW095	TRG	SW00655WC	AMERICIUM-241	2.000	PCI/L		U	.01		DRADS	06-DEC-90
SW095	TRG	SW095001 FILTERED	CESIUM-137	0.9	PCI/L	0.6				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	CESIUM-137	0.2	PCI/L	0.7				RFRA	27-MAR-89
SW095	TRG	SW095002	CESIUM-137	0.2	PCI/L	0.5		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	CESIUM-137	-0.1	PCI/L	0.7		1.		RFRA	05-JUL-89
SW095	TRG	SW095006	CESIUM-137	-0.06	PCI/L	0.12		0.3		RFRA	18-SEP-89
SW095	TRG	SW095007	CESIUM-137	0.07	PCI/L	0.42		0.68		RFRA	10-OCT-89
SW095		SW00355WC	CESIUM-137	.02104	PC/L	.200508		.64		TRADS	26-SEP-90
SW095		SW00355WC	CESIUM-137	.02104	PC/L	.200508		.64		TRADS	26-SEP-90
SW095		SW00355WC	GROSS ALPHA - SUSPENDED	73.59	PC/L	21.6776		14.8		TRADS	26-SEP-90
SW095		SW00355WC	GROSS ALPHA - SUSPENDED	73.59	PC/L	21.6776		14.8		TRADS	26-SEP-90
SW095	TRG	SW88A086	GROSS ALPHA PARTICLE RADIOAC	50.1	PCI/L	22.0		30	N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	GROSS ALPHA PARTICLE RADIOAC	110	PCI/L	60				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	GROSS ALPHA PARTICLE RADIOAC	340	PCI/L	130				RFRA	27-MAR-89
SW095	TRG	SW095002	GROSS ALPHA PARTICLE RADIOAC	140	PCI/L	60		72		RFRA	22-MAY-89
SW095	TRG	SW095004	GROSS ALPHA PARTICLE RADIOAC	62	PCI/L	27		31		RFRA	05-JUL-89
SW095	TRG	SW095006	GROSS ALPHA PARTICLE RADIOAC	48	PCI/L	14		16		RFRA	18-SEP-89
SW095	TRG	SW095007	GROSS ALPHA PARTICLE RADIOAC	81.9	PCI/L	14.4		12.1		RFRA	10-OCT-89
SW095	TRG	SW00450WC	GROSS ALPHA PARTICLE RADIOAC	40.00	PCI/L	13.00		2		DRADS	24-OCT-90
SW095	TRG	SW00551WC	GROSS ALPHA PARTICLE RADIOAC	42.00	PCI/L	14.00		2		DRADS	19-NOV-90
SW095	TRG	SW00655WC	GROSS ALPHA PARTICLE RADIOAC	47.00	PCI/L	15.00		2		DRADS	06-DEC-90
SW095		SW00355WC	GROSS BETA - SUSPENDED	88.56	PC/L	9.694161		8.77		TRADS	26-SEP-90
SW095		SW00355WC	GROSS BETA - SUSPENDED	88.56	PC/L	9.694161		8.77		TRADS	26-SEP-90
SW095	TRG	SW88A086	GROSS BETA PARTICLE RADIOACT	135	PCI/L	22.7		30	N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	GROSS BETA PARTICLE RADIOACT	130	PCI/L	30				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	GROSS BETA PARTICLE RADIOACT	250	PCI/L	50				RFRA	27-MAR-89
SW095	TRG	SW095002	GROSS BETA PARTICLE RADIOACT	160	PCI/L	30		40		RFRA	22-MAY-89
SW095	TRG	SW095004	GROSS BETA PARTICLE RADIOACT	160	PCI/L	20		19		RFRA	05-JUL-89
SW095	TRG	SW095006	GROSS BETA PARTICLE RADIOACT	130	PCI/L	20		13		RFRA	18-SEP-89
SW095	TRG	SW095007	GROSS BETA PARTICLE RADIOACT	145	PCI/L	19		21		RFRA	10-OCT-89
SW095	TRG	SW00450WC	GROSS BETA PARTICLE RADIOACT	100.0	PCI/L	10.00		4		DRADS	24-OCT-90
SW095	TRG	SW00551WC	GROSS BETA PARTICLE RADIOACT	110.0	PCI/L	10.00		4		DRADS	19-NOV-90
SW095	TRG	SW00655WC	GROSS BETA PARTICLE RADIOACT	110.0	PCI/L	10.00		4		DRADS	06-DEC-90
SW095	TRG	SW00450WC	GROSS GAMMA	1.000	PCI/L		U	1		DRADS	24-OCT-90
SW095	TRG	SW00450WC	GROSS GAMMA	.6000	PCI/L		U	1		DRADS	24-OCT-90
SW095	TRG	SW00551WC	GROSS GAMMA	.7000	PCI/L		U	1		DRADS	19-NOV-90
SW095	TRG	SW00551WC	GROSS GAMMA	.5000	PCI/L		U	1		DRADS	19-NOV-90
SW095	TRG	SW00655WC	GROSS GAMMA	1.000	PCI/L		U	1		DRADS	06-DEC-90
SW095	TRG	SW00655WC	GROSS GAMMA	.6000	PCI/L		U	1		DRADS	06-DEC-90
SW095	TRG	SW88A086	PLUTONIUM-239	0.838	PCI/L	0.439		0.3	N	RFRA	12-JUL-88
SW095	TRG	SW88A086	PLUTONIUM-239	0.0900	PCI/L	0.642		1	N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	PLUTONIUM-239	0.01	PCI/L	0.01				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	PLUTONIUM-239	10	PCI/L	1				RFRA	27-MAR-89
SW095	TRG	SW095002	PLUTONIUM-239	0.01	PCI/L	0.01		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	PLUTONIUM-239	0.04	PCI/L	0.01		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	PLUTONIUM-239	0.009	PCI/L	0.004		0.003		RFRA	18-SEP-89
SW095	TRG	SW095007	PLUTONIUM-239	0.010	PCI/L	0.008		0.009		RFRA	10-OCT-89
SW095	TRG	SW00450WC	PLUTONIUM-239	.5000	PCI/L		U	.01		DRADS	24-OCT-90
SW095	TRG	SW00551WC	PLUTONIUM-239	1.000	PCI/L		U	.01		DRADS	19-NOV-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00655WC	PLUTONIUM-239	.6000	PCI/L		U	.01		DRADS	06-DEC-90
SW095		SW00355WC	PLUTONIUM-239/240	.0114	PC/L	.0081516		.005		TRADS	26-SEP-90
SW095		SW00355WC	PLUTONIUM-239/240	.0114	PC/L	.0081516		.005		TRADS	26-SEP-90
SW095	TRG	SW00450WC	RADIUM 226 AND 228	.6000	PCI/L		U	.5		DRADS	24-OCT-90
SW095	TRG	SW00450WC	RADIUM 226 AND 228	2.900	PCI/L	.9000		1		DRADS	24-OCT-90
SW095	TRG	SW095001 FILTERED	RADIUM-226	0.8	PCI/L	0.3				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	RADIUM-226	4.4	PCI/L	0.8				RFRA	27-MAR-89
SW095	TRG	SW095002	RADIUM-226	0.6	PCI/L	0.2		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	RADIUM-226	0.5	PCI/L	0.3		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	RADIUM-226	1.0	PCI/L	0.6		0.7		RFRA	18-SEP-89
SW095	TRG	SW00551WC	RADIUM-226	.4	PCI/L		U	.5		DRADS	19-NOV-90
SW095	TRG	SW00655WC	RADIUM-226	.2000	PCI/L		U	.5		DRADS	06-DEC-90
SW095	TRG	SW095001 UNFILTERED	RADIUM-228	5.3	PCI/L	4.0				RFRA	27-MAR-89
SW095	TRG	SW095006	RADIUM-228	NR						RFRA	18-SEP-89
SW095	TRG	SW00551WC	RADIUM-228	1.600	PCI/L	.7000		1		DRADS	19-NOV-90
SW095	TRG	SW00450WC	STRONTIUM-89	1.000	PCI/L		U	1		DRADS	24-OCT-90
SW095	TRG	SW00551WC	STRONTIUM-89	1.000	PCI/L		U	1		DRADS	19-NOV-90
SW095	TRG	SW00655WC	STRONTIUM-89	1.000	PCI/L		U	1		DRADS	06-DEC-90
SW095	TRG	SW095001 FILTERED	STRONTIUM-90	-0.2	PCI/L	0.4				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	STRONTIUM-90	0.2	PCI/L	0.5				RFRA	27-MAR-89
SW095	TRG	SW095002	STRONTIUM-90	0.2	PCI/L	0.4		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	STRONTIUM-90	-0.2	PCI/L	0.5		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	STRONTIUM-90	0.1	PCI/L	0.2		0.8		RFRA	18-SEP-89
SW095	TRG	SW095007	STRONTIUM-90	0.26	PCI/L	0.42		0.65		RFRA	10-OCT-89
SW095		SW00355WC	STRONTIUM-90	.4421	PC/L	.616224		1.31		TRADS	26-SEP-90
SW095		SW00355WC	STRONTIUM-90	.4421	PC/L	.616224		1.31		TRADS	26-SEP-90
SW095	TRG	SW00450WC	STRONTIUM-90	.5000	PCI/L		U	1		DRADS	24-OCT-90
SW095	TRG	SW00551WC	STRONTIUM-90	.3000	PCI/L		U	1		DRADS	19-NOV-90
SW095	TRG	SW00655WC	STRONTIUM-90	.9000	PCI/L		U	1		DRADS	06-DEC-90
SW095	TRG	SW88A086	TRITIUM	2960	PCI/L	308		500	N	RFRA	12-JUL-88
SW095	TRG	SW095001 UNFILTERED	TRITIUM	2700	PCI/L	200				RFRA	27-MAR-89
SW095	TRG	SW095002	TRITIUM	2500	PCI/L	200		26		RFRA	22-MAY-89
SW095	TRG	SW095004	TRITIUM	2300	PCI/L	300		30		RFRA	05-JUL-89
SW095	TRG	SW095006	TRITIUM	1700	PCI/L	300		400		RFRA	18-SEP-89
SW095	TRG	SW095007	TRITIUM	2730	PCI/L	400		500		RFRA	10-OCT-89
SW095		SW09590002	TRITIUM	2224.141	PC/L	238.0635		255		TRADS	23-FEB-90
SW095		SW00355WC	TRITIUM	1772.1	PC/L	224.2724		243		TRADS	26-SEP-90
SW095	TRG	SW00450WC	TRITIUM	3200.	PCI/L	1400.		400		DRADS	24-OCT-90
SW095	TRG	SW00551WC	TRITIUM	1600.	PCI/L	200.0		400		DRADS	19-NOV-90
SW095	TRG	SW00655WC	TRITIUM	1800.	PCI/L	200.0		400		DRADS	06-DEC-90
SW095	TRG	SW88A086	URANIUM, TOTAL	206.8000					N	RFRA	12-JUL-88
SW095	TRG	SW88A086	URANIUM, TOTAL	164.100					N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	URANIUM, TOTAL	124.900						RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	URANIUM, TOTAL	70.5000						RFRA	27-MAR-89
SW095	TRG	SW095006	URANIUM, TOTAL	100.0000						RFRA	18-SEP-89
SW095	TRG	SW88A086	URANIUM-233,-234	122	PCI/L	4.16		0.4	N	RFRA	12-JUL-88
SW095	TRG	SW88A086	URANIUM-233,-234	99.1	PCI/L	1.74		0.4	N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	URANIUM-233,-234	74	PCI/L	5				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	URANIUM-233,-234	43	PCI/L	4				RFRA	27-MAR-89
SW095	TRG	SW095002	URANIUM-233,-234	89	PCI/L	2		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	URANIUM-233,-234	59	PCI/L	2		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	URANIUM-233,-234	60	PCI/L	7		0.5		RFRA	18-SEP-89
SW095	TRG	SW095007	URANIUM-233,-234	70.2	PCI/L	4.9		0.40		RFRA	10-OCT-89
SW095		SW00355WC	URANIUM-233,-234	43.04	PC/L	6.31316		.424		TRADS	26-SEP-90
SW095		SW00355WC	URANIUM-233,-234	43.04	PC/L	6.31316		.424		TRADS	26-SEP-90
SW095	TRG	SW00450WC	URANIUM-233,-234	59.00	PCI/L	4.000		.6		DRADS	24-OCT-90
SW095	TRG	SW00551WC	URANIUM-234	78.00	PCI/L	4.000		.6		DRADS	19-NOV-90
SW095	TRG	SW00655WC	URANIUM-234	69.00	PCI/L	4.000		.6		DRADS	06-DEC-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095001 FILTERED	URANIUM-235	2.9	PCI/L	1.0				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	URANIUM-235	2.5	PCI/L	1.0				RFRA	27-MAR-89
SW095	TRG	SW095002	URANIUM-235	3.0	PCI/L	0.4		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	URANIUM-235	1.7	PCI/L	0.3		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	URANIUM-235	3	PCI/L	0.8		0.2		RFRA	18-SEP-89
SW095	TRG	SW095007	URANIUM-235	2.83	PCI/L	1.02		0.40		RFRA	10-OCT-89
SW095	TRG	SW00450WC	URANIUM-235	1.700	PCI/L	.6000		.6		DRADS	24-OCT-90
SW095	TRG	SW00551WC	URANIUM-235	2.000	PCI/L	.6000		.6		DRADS	19-NOV-90
SW095	TRG	SW00655WC	URANIUM-235	1.900	PCI/L	.6000		.6		DRADS	06-DEC-90
SW095		SW00355WC	URANIUM-235/236	2.093	PC/L	.704228		.257		TRADS	26-SEP-90
SW095		SW00355WC	URANIUM-235/236	2.093	PC/L	.704228		.257		TRADS	26-SEP-90
SW095	TRG	SW88A086	URANIUM-238	84.8	PCI/L	3.47		0.4	N	RFRA	12-JUL-88
SW095	TRG	SW88A086	URANIUM-238	65.0	PCI/L	1.42		0.4	N	RFRS	12-JUL-88
SW095	TRG	SW095001 FILTERED	URANIUM-238	48	PCI/L	4				RFRS	27-MAR-89
SW095	TRG	SW095001 UNFILTERED	URANIUM-238	25	PCI/L	3				RFRA	27-MAR-89
SW095	TRG	SW095002	URANIUM-238	59	PCI/L	2		0.		RFRA	22-MAY-89
SW095	TRG	SW095004	URANIUM-238	37	PCI/L	2		0.		RFRA	05-JUL-89
SW095	TRG	SW095006	URANIUM-238	37	PCI/L	5		0.5		RFRA	18-SEP-89
SW095	TRG	SW095007	URANIUM-238	45.3	PCI/L	4.0		0.40		RFRA	10-OCT-89
SW095		SW00355WC	URANIUM-238	28.26	PC/L	4.3414		.424		TRADS	26-SEP-90
SW095		SW00355WC	URANIUM-238	28.26	PC/L	4.3414		.424		TRADS	26-SEP-90
SW095	TRG	SW00450WC	URANIUM-238	39.00	PCI/L	3.000		.6		DRADS	24-OCT-90
SW095	TRG	SW00551WC	URANIUM-238	55.00	PCI/L	3.000		.6		DRADS	19-NOV-90
SW095	TRG	SW00655WC	URANIUM-238	43.00	PCI/L	3.000		.6		DRADS	06-DEC-90

Location ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG SW88A086	1,1,1-TRICHLOROETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG SW095001	1,1,1-TRICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG SW095003	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG SW095004	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG SW095005	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG SW095007	1,1,1-TRICHLOROETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG SW095008	1,1,1-TRICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG SW095009	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG SW095W053090A	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW095W053090A	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW00157WC	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG SW00355WC	1,1,1-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	26-SEP-90
SW095	TRG SW00450WC	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG SW00551WC	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG SW00655WC	1,1,1-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG SW00963WC	1,1,1-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	14-MAR-91
SW095	TRG SW01065WC	1,1,1-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	11-APR-91
SW095	TRG SW01172WC	1,1,1-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	22-MAY-91
SW095	TRG SW88A086	1,1,2,2-TETRACHLOROETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG SW095001	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG SW095003	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG SW095004	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG SW095005	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG SW095007	1,1,2,2-TETRACHLOROETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG SW095008	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG SW095009	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG SW095W053090A	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW095W053090A	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW00157WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG SW00355WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	26-SEP-90
SW095	TRG SW00450WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG SW00551WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG SW00655WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG SW00963WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	14-MAR-91
SW095	TRG SW01065WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	11-APR-91
SW095	TRG SW01172WC	1,1,2,2-TETRACHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	22-MAY-91
SW095	TRG SW88A086	1,1,2-TRICHLOROETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG SW095001	1,1,2-TRICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG SW095003	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG SW095004	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG SW095005	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG SW095007	1,1,2-TRICHLOROETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG SW095008	1,1,2-TRICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG SW095009	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG SW095W053090A	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW095W053090A	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG SW00157WC	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG SW00355WC	1,1,2-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	26-SEP-90
SW095	TRG SW00450WC	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG SW00551WC	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG SW00655WC	1,1,2-TRICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG SW00963WC	1,1,2-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	14-MAR-91
SW095	TRG SW01065WC	1,1,2-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	11-APR-91
SW095	TRG SW01172WC	1,1,2-TRICHLOROETHANE	5	UG/L		U		5	VOCCLPTCL	22-MAY-91
SW095	TRG SW88A086	1,1-DICHLOROETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG SW095001	1,1-DICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG SW095003	1,1-DICHLOROETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG SW095004	1,1-DICHLOROETHANE	5	UG/L		U	5		RFVO	05-JUL-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095005	1,1-DICHLOROETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	1,1-DICHLOROETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	1,1-DICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	1,1-DICHLOROETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	1,1-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	1,1-DICHLOROETHENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	1,1-DICHLOROETHENE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	1,1-DICHLOROETHENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	1,1-DICHLOROETHENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	1,1-DICHLOROETHENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	1,1-DICHLOROETHENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	1,1-DICHLOROETHENE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	1,1-DICHLOROETHENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	1,1-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	1,2,4-TRICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	1,2-DICHLOROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	1,2-DICHLOROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	1,2-DICHLOROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	1,2-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	1,2-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	1,2-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	1,2-DICHLOROETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	1,2-DICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	1,2-DICHLOROETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	1,2-DICHLOROETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	1,2-DICHLOROETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	1,2-DICHLOROETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	1,2-DICHLOROETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	1,2-DICHLOROETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00655WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	1,2-DICHLOROETHANE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	1,2-DICHLOROETHENE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	1,2-DICHLOROETHENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	1,2-DICHLOROETHENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	1,2-DICHLOROETHENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	1,2-DICHLOROETHENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	1,2-DICHLOROETHENE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	1,2-DICHLOROETHENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	1,2-DICHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	1,2-DICHLOROPROPANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	1,2-DICHLOROPROPANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	1,2-DICHLOROPROPANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	1,2-DICHLOROPROPANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	1,2-DICHLOROPROPANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	1,2-DICHLOROPROPANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	1,2-DICHLOROPROPANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	1,2-DICHLOROPROPANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	1,2-DICHLOROPROPANE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	1,3-DICHLOROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	1,3-DICHLOROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	1,3-DICHLOROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	1,3-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	1,3-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	1,3-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	1,4-DICHLOROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	1,4-DICHLOROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	1,4-DICHLOROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	1,4-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	1,4-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	1,4-DICHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4,5-TRICHLOROPHENOL	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	2,4,5-TRICHLOROPHENOL	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4,5-TRICHLOROPHENOL	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4,5-TRICHLOROPHENOL	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4,5-TRICHLOROPHENOL	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4,5-TRICHLOROPHENOL	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		RFSV	27-MAR-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095002	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4,6-TRICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4-DICHLOROPHENOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	2,4-DICHLOROPHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4-DICHLOROPHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4-DICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4-DICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4-DICHLOROPHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4-DIMETHYLPHENOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	2,4-DIMETHYLPHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4-DIMETHYLPHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4-DIMETHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4-DIMETHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4-DIMETHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4-DINITROPHENOL	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	2,4-DINITROPHENOL	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4-DINITROPHENOL	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4-DINITROPHENOL	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4-DINITROPHENOL	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4-DINITROPHENOL	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,4-DINITROTOLUENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	2,4-DINITROTOLUENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2,4-DINITROTOLUENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,4-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,4-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,4-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2,6-DINITROTOLUENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	2,6-DINITROTOLUENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2,6-DINITROTOLUENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2,6-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2,6-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2,6-DINITROTOLUENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	2-BUTANONE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	2-BUTANONE	10	UG/L		U R	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	2-BUTANONE	10	UG/L		U	10		RFVO	08-JUN-89
SW095	TRG	SW095004	2-BUTANONE	10	UG/L		U	10		RFVO	05-JUL-89
SW095	TRG	SW095005	2-BUTANONE	10	UG/L		U	10		RFVO	10-AUG-89
SW095	TRG	SW095007	2-BUTANONE	20	UG/L		U	20		RFVO	10-OCT-89
SW095	TRG	SW095008	2-BUTANONE	10	UG/L		U V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	2-BUTANONE	10	UG/L		U	10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	2-BUTANONE	10	UG/L		U	10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	2-CHLOROETHYL VINYL ETHER	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	2-CHLORONAPHTHALENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	2-CHLORONAPHTHALENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	2-CHLORONAPHTHALENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-CHLORONAPHTHALENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.		D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00450WC	2-CHLORONAPHTHALENE	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-CHLORONAPHTHALENE	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2-CHLOROPHENOL	10	UG/L		U		10		RFSV	27-MAR-89
SW095	TRG	SW095002	2-CHLOROPHENOL	10	UG/L		U		10		RFSV	22-MAY-89
SW095	TRG	SW095007	2-CHLOROPHENOL	10	UG/L		U		10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-CHLOROPHENOL	10	UG/L		U		10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2-CHLOROPHENOL	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-CHLOROPHENOL	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	2-HEXANONE	10	UG/L		U		10		RFVO	12-JUL-88
SW095	TRG	SW095001	2-HEXANONE	10	UG/L		U	R	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	2-HEXANONE	10	UG/L		U		10		RFVO	08-JUN-89
SW095	TRG	SW095004	2-HEXANONE	10	UG/L		U		10		RFVO	05-JUL-89
SW095	TRG	SW095005	2-HEXANONE	10	UG/L		U		10		RFVO	10-AUG-89
SW095	TRG	SW095007	2-HEXANONE	20	UG/L		U		20		RFVO	10-OCT-89
SW095	TRG	SW095008	2-HEXANONE	10	UG/L		U	V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	2-HEXANONE	10	UG/L		U		10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	2-HEXANONE	10	UG/L		U		10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	2-METHYLNAPHTHALENE	10	UG/L		U		10		RFSV	27-MAR-89
SW095	TRG	SW095002	2-METHYLNAPHTHALENE	10	UG/L		U		10		RFSV	22-MAY-89
SW095	TRG	SW095007	2-METHYLNAPHTHALENE	10	UG/L		U		10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-METHYLNAPHTHALENE	10	UG/L		U		10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2-METHYLNAPHTHALENE	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-METHYLNAPHTHALENE	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2-METHYLPHENOL	10	UG/L		U		10		RFSV	27-MAR-89
SW095	TRG	SW095002	2-METHYLPHENOL	10	UG/L		U		10		RFSV	22-MAY-89
SW095	TRG	SW095007	2-METHYLPHENOL	10	UG/L		U		10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-METHYLPHENOL	10	UG/L		U		10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2-METHYLPHENOL	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-METHYLPHENOL	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2-NITROANILINE	52	UG/L		U		52		RFSV	27-MAR-89
SW095	TRG	SW095002	2-NITROANILINE	50	UG/L		U		50		RFSV	22-MAY-89
SW095	TRG	SW095007	2-NITROANILINE	50	UG/L		U		50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-NITROANILINE	50	UG/L		U		50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2-NITROANILINE	50	UG/L		U		50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-NITROANILINE	50	UG/L		U		50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	2-NITROPHENOL	10	UG/L		U		10		RFSV	27-MAR-89
SW095	TRG	SW095002	2-NITROPHENOL	10	UG/L		U		10		RFSV	22-MAY-89
SW095	TRG	SW095007	2-NITROPHENOL	10	UG/L		U		10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	2-NITROPHENOL	10	UG/L		U		10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	2-NITROPHENOL	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	2-NITROPHENOL	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	3,3'-DICHLOROBENZIDINE	21	UG/L		U		21		RFSV	27-MAR-89
SW095	TRG	SW095002	3,3'-DICHLOROBENZIDINE	20	UG/L		U		20		RFSV	22-MAY-89
SW095	TRG	SW095007	3,3'-DICHLOROBENZIDINE	20	UG/L		U		20		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	3,3'-DICHLOROBENZIDINE	20	UG/L		U		20		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	3,3'-DICHLOROBENZIDINE	20	UG/L		U		20		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	3,3'-DICHLOROBENZIDINE	20	UG/L		U		20		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	3-NITROANILINE	52	UG/L		U		52		RFSV	27-MAR-89
SW095	TRG	SW095002	3-NITROANILINE	50	UG/L		U		50		RFSV	22-MAY-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095007	3-NITROANILINE	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	3-NITROANILINE	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	3-NITROANILINE	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	3-NITROANILINE	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4,6-DINITRO-2-METHYLPHENOL	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	4,6-DINITRO-2-METHYLPHENOL	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	4,6-DINITRO-2-METHYLPHENOL	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4,6-DINITRO-2-METHYLPHENOL	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4,6-DINITRO-2-METHYLPHENOL	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4,6-DINITRO-2-METHYLPHENOL	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-BROMOPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-CHLORO-3-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4-CHLOROANILINE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	4-CHLOROANILINE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	4-CHLOROANILINE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-CHLOROANILINE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-CHLOROANILINE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-CHLOROANILINE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-CHLOROPHENYL PHENYL ETHER	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	4-METHYL-2-PENTANONE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	4-METHYL-2-PENTANONE	10	UG/L		U R	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	4-METHYL-2-PENTANONE	10	UG/L		U	10		RFVO	08-JUN-89
SW095	TRG	SW095004	4-METHYL-2-PENTANONE	10	UG/L		U	10		RFVO	05-JUL-89
SW095	TRG	SW095005	4-METHYL-2-PENTANONE	10	UG/L		U	10		RFVO	10-AUG-89
SW095	TRG	SW095007	4-METHYL-2-PENTANONE	20	UG/L		U	20		RFVO	10-OCT-89
SW095	TRG	SW095008	4-METHYL-2-PENTANONE	10	UG/L		U V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	4-METHYL-2-PENTANONE	10	UG/L		U	10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	4-METHYL-2-PENTANONE	10	UG/L		U	10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	4-METHYLPHENOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	4-METHYLPHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	4-METHYLPHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-METHYLPHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095001	4-NITROANILINE	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	4-NITROANILINE	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	4-NITROANILINE	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-NITROANILINE	50	UG/L		U	50		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-NITROANILINE	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-NITROANILINE	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	4-NITROPHENOL	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	4-NITROPHENOL	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	4-NITROPHENOL	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	4-NITROPHENOL	50	UG/L		U	50		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	4-NITROPHENOL	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	4-NITROPHENOL	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	ACENAPHTHENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	ACENAPHTHENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	ACENAPHTHENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	ACENAPHTHENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	ACENAPHTHENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	ACENAPHTHENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	ACENAPHTHYLENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	ACENAPHTHYLENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	ACENAPHTHYLENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	ACENAPHTHYLENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	ACENAPHTHYLENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	ACENAPHTHYLENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	ACETONE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	ACETONE	10	UG/L		U V	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	ACETONE	7	UG/L		JB	10		RFVO	08-JUN-89
SW095	TRG	SW095004	ACETONE	8	UG/L		JB	10		RFVO	05-JUL-89
SW095	TRG	SW095005	ACETONE	80	UG/L			10		RFVO	10-AUG-89
SW095	TRG	SW095007	ACETONE	20	UG/L		U	20		RFVO	10-OCT-89
SW095	TRG	SW095008	ACETONE	10	UG/L		U R	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	ACETONE	10	UG/L		U	10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	ACETONE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ACETONE	8	UG/L		JB	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ACETONE	10	UG/L		U	10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ACETONE	10	UG/L		U	10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	ACETONE	10	UG/L		U	10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	ACETONE	10	UG/L		U	10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	ACETONE	10	UG/L		U	10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	ACETONE	14	UG/L		B	10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ACETONE	6	UG/L		BJ	10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ACETONE	4	UG/L		BJ	10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	ANTHRACENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	ANTHRACENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	ANTHRACENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	BENZENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	BENZENE	5	UG/L		U A	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	BENZENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	BENZENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	BENZENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	BENZENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	BENZENE	5	UG/L		U A	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	BENZENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	BENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00157WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BENZENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	BENZO(a)ANTHRACENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZO(a)ANTHRACENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZO(a)ANTHRACENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZO(a)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZO(a)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZO(a)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZO(a)PYRENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZO(a)PYRENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZO(a)PYRENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZO(a)PYRENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZO(a)PYRENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZO(a)PYRENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZO(b)FLUORANTHENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZO(b)FLUORANTHENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZO(b)FLUORANTHENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZO(b)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZO(b)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZO(b)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZO(ghi)PERYLENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZO(ghi)PERYLENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZO(ghi)PERYLENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZO(ghi)PERYLENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZO(ghi)PERYLENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZO(ghi)PERYLENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZO(k)FLUORANTHENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZO(k)FLUORANTHENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZO(k)FLUORANTHENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZO(k)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZO(k)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZO(k)FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZOIC ACID	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZOIC ACID	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZOIC ACID	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZOIC ACID	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZOIC ACID	50	UG/L		U	50		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZOIC ACID	50	UG/L		U	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BENZYL ALCOHOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BENZYL ALCOHOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BENZYL ALCOHOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BENZYL ALCOHOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BENZYL ALCOHOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BENZYL ALCOHOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BIS(2-CHLOROETHOXY)METHANE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		RFSV	22-MAY-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095007	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BIS(2-CHLOROETHYL)ETHER	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	BIS(2-ETHYLHEXYL)PHTHALATE	1	UG/L		J	10		RFSV	22-MAY-89
SW095	TRG	SW095007	BIS(2-ETHYLHEXYL)PHTHALATE	24	UG/L		B	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BIS(2-ETHYLHEXYL)PHTHALATE	1	UG/L		J	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	BROMODICHLOROMETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	BROMODICHLOROMETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	BROMODICHLOROMETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	BROMODICHLOROMETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	BROMODICHLOROMETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	BROMODICHLOROMETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	BROMODICHLOROMETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	BROMODICHLOROMETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BROMODICHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	BROMOFORM	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	BROMOFORM	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	BROMOFORM	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	BROMOFORM	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	BROMOFORM	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	BROMOFORM	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	BROMOFORM	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	BROMOFORM	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BROMOFORM	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	BROMOMETHANE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	BROMOMETHANE	10	UG/L		U	V 10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	BROMOMETHANE	10	UG/L		U	10		RFVO	08-JUN-89
SW095	TRG	SW095004	BROMOMETHANE	10	UG/L		U	10		RFVO	05-JUL-89
SW095	TRG	SW095005	BROMOMETHANE	10	UG/L		U	10		RFVO	10-AUG-89
SW095	TRG	SW095007	BROMOMETHANE	20	UG/L		U	20		RFVO	10-OCT-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.		D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095008	BROMOMETHANE	10	UG/L		U	V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	BROMOMETHANE	10	UG/L		U		10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	BROMOMETHANE	10	UG/L		U		10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		RFSV	27-MAR-89
SW095	TRG	SW095002	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		RFSV	22-MAY-89
SW095	TRG	SW095007	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	BUTYL BENZYL PHTHALATE	10	UG/L		U		10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	CARBON DISULFIDE	5.0	UG/L		U		5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	CARBON DISULFIDE	5	UG/L		U	V	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CARBON DISULFIDE	5	UG/L		U		5		RFVO	08-JUN-89
SW095	TRG	SW095004	CARBON DISULFIDE	5	UG/L		U		5		RFVO	05-JUL-89
SW095	TRG	SW095005	CARBON DISULFIDE	5	UG/L		U		5		RFVO	10-AUG-89
SW095	TRG	SW095007	CARBON DISULFIDE	10	UG/L		U		10		RFVO	10-OCT-89
SW095	TRG	SW095008	CARBON DISULFIDE	5	UG/L		U	R	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CARBON DISULFIDE	5	UG/L		U		5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CARBON DISULFIDE	5	UG/L		U		5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	CARBON TETRACHLORIDE	1.0	UG/L		J		5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	CARBON TETRACHLORIDE	11	UG/L			V	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CARBON TETRACHLORIDE	1	UG/L		J		5		RFVO	08-JUN-89
SW095	TRG	SW095004	CARBON TETRACHLORIDE	5	UG/L		U		5		RFVO	05-JUL-89
SW095	TRG	SW095005	CARBON TETRACHLORIDE	2	UG/L		J		5		RFVO	10-AUG-89
SW095	TRG	SW095007	CARBON TETRACHLORIDE	10	UG/L		U		10		RFVO	10-OCT-89
SW095	TRG	SW095008	CARBON TETRACHLORIDE	5	UG/L		U	V	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CARBON TETRACHLORIDE	5	UG/L		U		5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	CARBON TETRACHLORIDE	2	UG/L		J		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CARBON TETRACHLORIDE	2	UG/L		J		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CARBON TETRACHLORIDE	1	UG/L		J		5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CARBON TETRACHLORIDE	5	UG/L		U		5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	CHLOROBENZENE	5.0	UG/L		U		5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	CHLOROBENZENE	5	UG/L		U	A	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CHLOROBENZENE	5	UG/L		U		5		RFVO	08-JUN-89
SW095	TRG	SW095004	CHLOROBENZENE	5	UG/L		U		5		RFVO	05-JUL-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095005	CHLOROBENZENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	CHLOROBENZENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	CHLOROBENZENE	5	UG/L		U A	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CHLOROBENZENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CHLOROBENZENE	5	UG/L		U		5	VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CHLOROBENZENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CHLOROBENZENE	5	UG/L		U		5	VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CHLOROBENZENE	5	UG/L		U		5	VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CHLOROBENZENE	5	UG/L		U		5	VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	CHLOROETHANE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	CHLOROETHANE	10	UG/L		U R	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CHLOROETHANE	10	UG/L		U	10		RFVO	08-JUN-89
SW095	TRG	SW095004	CHLOROETHANE	10	UG/L		U	10		RFVO	05-JUL-89
SW095	TRG	SW095005	CHLOROETHANE	10	UG/L		U	10		RFVO	10-AUG-89
SW095	TRG	SW095007	CHLOROETHANE	20	UG/L		U	20		RFVO	10-OCT-89
SW095	TRG	SW095008	CHLOROETHANE	10	UG/L		U R	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CHLOROETHANE	10	UG/L		U	10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CHLOROETHANE	10	UG/L		U		10	VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CHLOROETHANE	10	UG/L		U	10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CHLOROETHANE	10	UG/L		U		10	VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CHLOROETHANE	10	UG/L		U		10	VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CHLOROETHANE	10	UG/L		U		10	VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	CHLOROFORM	2.0	UG/L		J	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	CHLOROFORM	2	UG/L		J V	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CHLOROFORM	1	UG/L		J	5		RFVO	08-JUN-89
SW095	TRG	SW095004	CHLOROFORM	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	CHLOROFORM	2	UG/L		J	5		RFVO	10-AUG-89
SW095	TRG	SW095007	CHLOROFORM	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	CHLOROFORM	5	UG/L		U V	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CHLOROFORM	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	CHLOROFORM	1	UG/L		J	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHLOROFORM	1	UG/L		J	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CHLOROFORM	1	UG/L		J	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CHLOROFORM	2	UG/L		J		5	VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CHLOROFORM	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CHLOROFORM	2	UG/L		J	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CHLOROFORM	1	UG/L		J	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CHLOROFORM	2	UG/L		J		5	VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CHLOROFORM	1	UG/L		J		5	VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CHLOROFORM	1	UG/L		J		5	VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	CHLOROMETHANE	10	UG/L		U	10		RFVO	12-JUL-88
SW095	TRG	SW095001	CHLOROMETHANE	10	UG/L		U V	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	CHLOROMETHANE	10	UG/L		U	10		RFVO	08-JUN-89
SW095	TRG	SW095004	CHLOROMETHANE	10	UG/L		U	10		RFVO	05-JUL-89
SW095	TRG	SW095005	CHLOROMETHANE	10	UG/L		U	10		RFVO	10-AUG-89
SW095	TRG	SW095007	CHLOROMETHANE	20	UG/L		U	20		RFVO	10-OCT-89
SW095	TRG	SW095008	CHLOROMETHANE	10	UG/L		U V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	CHLOROMETHANE	10	UG/L		U	10		RFVO	07-DEC-89

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095W053090A	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	CHLOROMETHANE	10	UG/L		U	10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	CHRYSENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	CHRYSENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	CHRYSENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	CHRYSENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	CHRYSENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	CHRYSENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	DI-n-BUTYL PHTHALATE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DI-n-BUTYL PHTHALATE	1	UG/L		J	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DI-n-BUTYL PHTHALATE	2	UG/L		JB	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DI-n-BUTYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DI-n-BUTYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DI-n-BUTYL PHTHALATE	4	UG/L		BJ	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	DI-n-OCTYL PHTHALATE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DI-n-OCTYL PHTHALATE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DI-n-OCTYL PHTHALATE	1	UG/L		J	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DI-n-OCTYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DI-n-OCTYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DI-n-OCTYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DIBENZO(a,h)ANTHRACENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	DIBENZOFURAN	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DIBENZOFURAN	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DIBENZOFURAN	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DIBENZOFURAN	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DIBENZOFURAN	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DIBENZOFURAN	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	DIBROMOCHLOROMETHANE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	DIBROMOCHLOROMETHANE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	DIBROMOCHLOROMETHANE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	DIBROMOCHLOROMETHANE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	DIBROMOCHLOROMETHANE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	DIBROMOCHLOROMETHANE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	DIBROMOCHLOROMETHANE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	DIBROMOCHLOROMETHANE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	DIBROMOCHLOROMETHANE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095001	DIETHYL PHTHALATE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DIETHYL PHTHALATE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DIETHYL PHTHALATE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DIETHYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DIETHYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DIETHYL PHTHALATE	4	UG/L		J	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	DIMETHYL PHTHALATE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	DIMETHYL PHTHALATE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	DIMETHYL PHTHALATE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	DIMETHYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	DIMETHYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	DIMETHYL PHTHALATE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	ETHYLBENZENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	ETHYLBENZENE	5	UG/L		U	A 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	ETHYLBENZENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	ETHYLBENZENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	ETHYLBENZENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	ETHYLBENZENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	ETHYLBENZENE	5	UG/L		U	A 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	ETHYLBENZENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	ETHYLBENZENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	FLUORANTHENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	FLUORANTHENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	FLUORANTHENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	FLUORANTHENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	FLUORENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	FLUORENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	FLUORENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	FLUORENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	FLUORENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	FLUORENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	HEXACHLOROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	HEXACHLOROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	HEXACHLOROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	HEXACHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	HEXACHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	HEXACHLOROBENZENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	HEXACHLOROBUTADIENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	HEXACHLOROBUTADIENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	HEXACHLOROBUTADIENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	HEXACHLOROBUTADIENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	HEXACHLOROBUTADIENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	HEXACHLOROBUTADIENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00450WC	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	HEXACHLOROCYCLOPENTADIENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	HEXACHLOROETHANE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	HEXACHLOROETHANE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	HEXACHLOROETHANE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	HEXACHLOROETHANE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	HEXACHLOROETHANE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	HEXACHLOROETHANE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	INDENO(1,2,3-cd)PYRENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	ISOPHORONE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	ISOPHORONE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	ISOPHORONE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	ISOPHORONE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	ISOPHORONE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	ISOPHORONE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	METHYLENE CHLORIDE	1.0	UG/L		J	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	METHYLENE CHLORIDE	5	UG/L		B A	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	METHYLENE CHLORIDE	2	UG/L		JB	5		RFVO	08-JUN-89
SW095	TRG	SW095004	METHYLENE CHLORIDE	4	UG/L		JB	5		RFVO	05-JUL-89
SW095	TRG	SW095005	METHYLENE CHLORIDE	2	UG/L		JB	5		RFVO	10-AUG-89
SW095	TRG	SW095007	METHYLENE CHLORIDE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	METHYLENE CHLORIDE	5	UG/L		U R	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	METHYLENE CHLORIDE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	METHYLENE CHLORIDE	2	UG/L		JB	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	METHYLENE CHLORIDE	3	UG/L		JB	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	METHYLENE CHLORIDE	2	UG/L		JB	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	METHYLENE CHLORIDE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	METHYLENE CHLORIDE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	METHYLENE CHLORIDE	1	UG/L		BJ	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	METHYLENE CHLORIDE	2	UG/L		BJ	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	METHYLENE CHLORIDE	1	UG/L		J	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	METHYLENE CHLORIDE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	METHYLENE CHLORIDE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW095001	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	N-NITROSO-DI-n-PROPYLAMINE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	N-NITROSODIPHENYLAMINE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	NAPHTHALENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	NAPHTHALENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	NAPHTHALENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	NAPHTHALENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	NAPHTHALENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	NAPHTHALENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	NITROBENZENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	NITROBENZENE	10	UG/L		U	10		RFSV	22-MAY-89

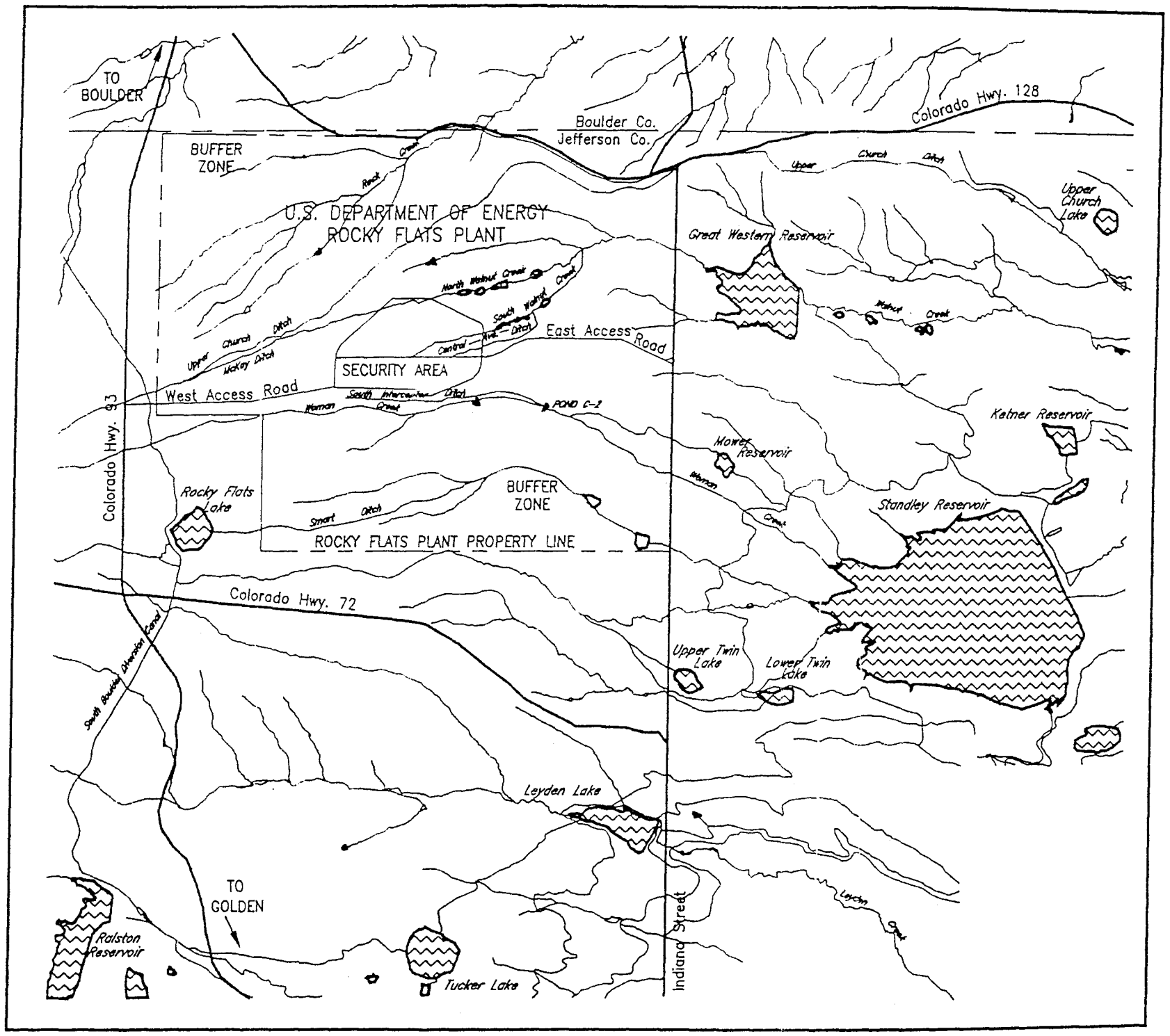
Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095007	NITROBENZENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	NITROBENZENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	NITROBENZENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW095001	PENTACHLOROPHENOL	52	UG/L		U	52		RFSV	27-MAR-89
SW095	TRG	SW095002	PENTACHLOROPHENOL	50	UG/L		U	50		RFSV	22-MAY-89
SW095	TRG	SW095007	PENTACHLOROPHENOL	50	UG/L		U	50		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	PENTACHLOROPHENOL	50	UG/L		U	50		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	PENTACHLOROPHENOL	50	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	PENTACHLOROPHENOL	20	UG/L		J	50		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	PHENANTHRENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	PHENANTHRENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	PHENANTHRENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	PHENANTHRENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	PHENANTHRENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	PHENANTHRENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	PHENOL	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	PHENOL	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	PHENOL	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	PHENOL	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	PHENOL	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	PHENOL	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW095001	PYRENE	10	UG/L		U	10		RFSV	27-MAR-89
SW095	TRG	SW095002	PYRENE	10	UG/L		U	10		RFSV	22-MAY-89
SW095	TRG	SW095007	PYRENE	10	UG/L		U	10		RFSV	10-OCT-89
SW095	TRG	SW095W053090A	PYRENE	10	UG/L		U	10		SVOCLPTCL	30-MAY-90
SW095	TRG	SW00450WC	PYRENE	10	UG/L		U	10		SVOCLPTCL	24-OCT-90
SW095	TRG	SW01065WC	PYRENE	10	UG/L		U	10		SVOCLPTCL	11-APR-91
SW095	TRG	SW88A086	STYRENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	STYRENE	5	UG/L		U	A 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	STYRENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	STYRENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	STYRENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	STYRENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	STYRENE	5	UG/L		U	A 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	STYRENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	STYRENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	STYRENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	STYRENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	TETRACHLOROETHENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	TETRACHLOROETHENE	5	UG/L		U	V 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	TETRACHLOROETHENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	TETRACHLOROETHENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	TETRACHLOROETHENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	TETRACHLOROETHENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	TETRACHLOROETHENE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	TETRACHLOROETHENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW00551WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	TETRACHLOROETHENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	TOLUENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	TOLUENE	5	UG/L		U	A 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	TOLUENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	TOLUENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	TOLUENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	TOLUENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	TOLUENE	5	UG/L		U	A 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	TOLUENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	TOLUENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	TOLUENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	TOLUENE	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	TOTAL XYLENES	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	TOTAL XYLENES	5	UG/L		U	A 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	TOTAL XYLENES	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	TOTAL XYLENES	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	TOTAL XYLENES	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	TOTAL XYLENES	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	TOTAL XYLENES	5	UG/L		U	A 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	TOTAL XYLENES	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	TOTAL XYLENES	5	UG/L		U	5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	TRICHLOROETHENE	5.0	UG/L		U	5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	TRICHLOROETHENE	4	UG/L		J	A 5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	TRICHLOROETHENE	3	UG/L		J	5		RFVO	08-JUN-89
SW095	TRG	SW095004	TRICHLOROETHENE	2	UG/L		J	5		RFVO	05-JUL-89
SW095	TRG	SW095005	TRICHLOROETHENE	4	UG/L		J	5		RFVO	10-AUG-89
SW095	TRG	SW095007	TRICHLOROETHENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	TRICHLOROETHENE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	TRICHLOROETHENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	TRICHLOROETHENE	3	UG/L		JB	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	TRICHLOROETHENE	5	UG/L			5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	TRICHLOROETHENE	3	UG/L		J	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	TRICHLOROETHENE	3	UG/L		J	5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	TRICHLOROETHENE	3	UG/L		J	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	TRICHLOROETHENE	4	UG/L		J	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	TRICHLOROETHENE	2	UG/L		J	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	TRICHLOROETHENE	3	UG/L		J	5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	TRICHLOROETHENE	3	UG/L		J	5		VOCCLPTCL	11-APR-91

Location ID		Proj_Sample_No	Chemical	Result	Unit	Err	Qual.		D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW01172WC	TRICHLOROETHENE	2	UG/L		J		5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	VINYL ACETATE	10	UG/L		U		10		RFVO	12-JUL-88
SW095	TRG	SW095001	VINYL ACETATE	10	UG/L		U	V	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	VINYL ACETATE	10	UG/L		U		10		RFVO	08-JUN-89
SW095	TRG	SW095004	VINYL ACETATE	10	UG/L		U		10		RFVO	05-JUL-89
SW095	TRG	SW095005	VINYL ACETATE	10	UG/L		U		10		RFVO	10-AUG-89
SW095	TRG	SW095007	VINYL ACETATE	20	UG/L		U		20		RFVO	10-OCT-89
SW095	TRG	SW095008	VINYL ACETATE	10	UG/L		U	R	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	VINYL ACETATE	10	UG/L		U		10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	VINYL ACETATE	10	UG/L		U		10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	VINYL CHLORIDE	10	UG/L		U		10		RFVO	12-JUL-88
SW095	TRG	SW095001	VINYL CHLORIDE	10	UG/L		U	V	10	A	RFVO	27-MAR-89
SW095	TRG	SW095003	VINYL CHLORIDE	10	UG/L		U		10		RFVO	08-JUN-89
SW095	TRG	SW095004	VINYL CHLORIDE	10	UG/L		U		10		RFVO	05-JUL-89
SW095	TRG	SW095005	VINYL CHLORIDE	10	UG/L		U		10		RFVO	10-AUG-89
SW095	TRG	SW095007	VINYL CHLORIDE	20	UG/L		U		20		RFVO	10-OCT-89
SW095	TRG	SW095008	VINYL CHLORIDE	10	UG/L		U	V	10	A	RFVO	02-NOV-89
SW095	TRG	SW095009	VINYL CHLORIDE	10	UG/L		U		10		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	VINYL CHLORIDE	10	UG/L		U		10		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	cis-1,3-DICHLOROPROPENE	5.0	UG/L		U		5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	cis-1,3-DICHLOROPROPENE	5	UG/L		U	V	5	A	RFVO	27-MAR-89
SW095	TRG	SW095003	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		RFVO	08-JUN-89
SW095	TRG	SW095004	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		RFVO	05-JUL-89
SW095	TRG	SW095005	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		RFVO	10-AUG-89
SW095	TRG	SW095007	cis-1,3-DICHLOROPROPENE	10	UG/L		U		10		RFVO	10-OCT-89
SW095	TRG	SW095008	cis-1,3-DICHLOROPROPENE	5	UG/L		U	V	5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	cis-1,3-DICHLOROPROPENE	5	UG/L		U		5		VOCCLPTCL	22-MAY-91
SW095	TRG	SW88A086	trans-1,2-DICHLOROETHENE	5.0	UG/L		U		5.0		RFVO	12-JUL-88
SW095	TRG	SW88A086	trans-1,3-DICHLOROPROPENE	5.0	UG/L		U		5.0		RFVO	12-JUL-88
SW095	TRG	SW095001	trans-1,3-DICHLOROPROPENE	5	UG/L		U	V	5	A	RFVO	27-MAR-89

Location	ID	Proj_Sample_No	Chemical	Result	Unit	Err	Qual.	D.Lmt	VA	Group	Smpl Date
SW095	TRG	SW095003	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		RFVO	08-JUN-89
SW095	TRG	SW095004	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		RFVO	05-JUL-89
SW095	TRG	SW095005	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		RFVO	10-AUG-89
SW095	TRG	SW095007	trans-1,3-DICHLOROPROPENE	10	UG/L		U	10		RFVO	10-OCT-89
SW095	TRG	SW095008	trans-1,3-DICHLOROPROPENE	5	UG/L		U	V 5	A	RFVO	02-NOV-89
SW095	TRG	SW095009	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		RFVO	07-DEC-89
SW095	TRG	SW095W053090A	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW095W053090A	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	30-MAY-90
SW095	TRG	SW00157WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	26-JUN-90
SW095	TRG	SW00355WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U		5	VOCCLPTCL	26-SEP-90
SW095	TRG	SW00450WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	24-OCT-90
SW095	TRG	SW00551WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	19-NOV-90
SW095	TRG	SW00655WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U	5		VOCCLPTCL	06-DEC-90
SW095	TRG	SW00963WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U		5	VOCCLPTCL	14-MAR-91
SW095	TRG	SW01065WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U		5	VOCCLPTCL	11-APR-91
SW095	TRG	SW01172WC	trans-1,3-DICHLOROPROPENE	5	UG/L		U		5	VOCCLPTCL	22-MAY-91

DRAWN BY	RITA HYNA	CHECKED BY	GWB 8-2-91	DRAWING NUMBER 304903-B20
	7/31/91	APPROVED BY	GWB 8-13-91	



SCALE: 1" = 1 MILE

0 1/2 1 MILE

FIGURE 2-2

ROCKY FLATS PLANT AND VICINITY MAP

REFERENCE: EG&G DRAFT PHASE I RFI/RI WORK PLAN FOR OU-7, JULY 1991.

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
KRDINER 7-31-91	GJB	GJB	304903-B18
	8-2-91	8-13-91	

PROTECTED AREA (PA)

PLANT SECURITY ZONE (Controlled Area)

PROPOSED TANK LOCATION

NORTH WALNUT CREEK

A-1 A-2 A-3 A-4 B-5

INTERCEPTOR TRENCH PUMP HOUSE (SW095)

SOLAR EVAPORATION PONDS

B-1 B-2 B-3 B-4 C-1 C-2

BLDG. 910

N754,000 N753,000 N752,000 N751,000 N750,000 N749,000 N748,000 N747,000

E2,080,000 E2,081,000 E2,082,000 E2,083,000 E2,084,000 E2,085,000 E2,086,000 E2,087,000 E2,088,000 E2,089,000

N

SCALE: 1" = 750'

0 500' 1000'

CONTOUR INTERVAL = 20'

FIGURE 2-4

TOPOGRAPHIC MAP OF SOLAR EVAPORATION POND AREA

DRAWN BY	RITA HYNA	CHECKED BY	6408	8-13-91	DRAWING NUMBER	304903-B23
	7/31/91	APPROVED BY	6403	8-13-91		

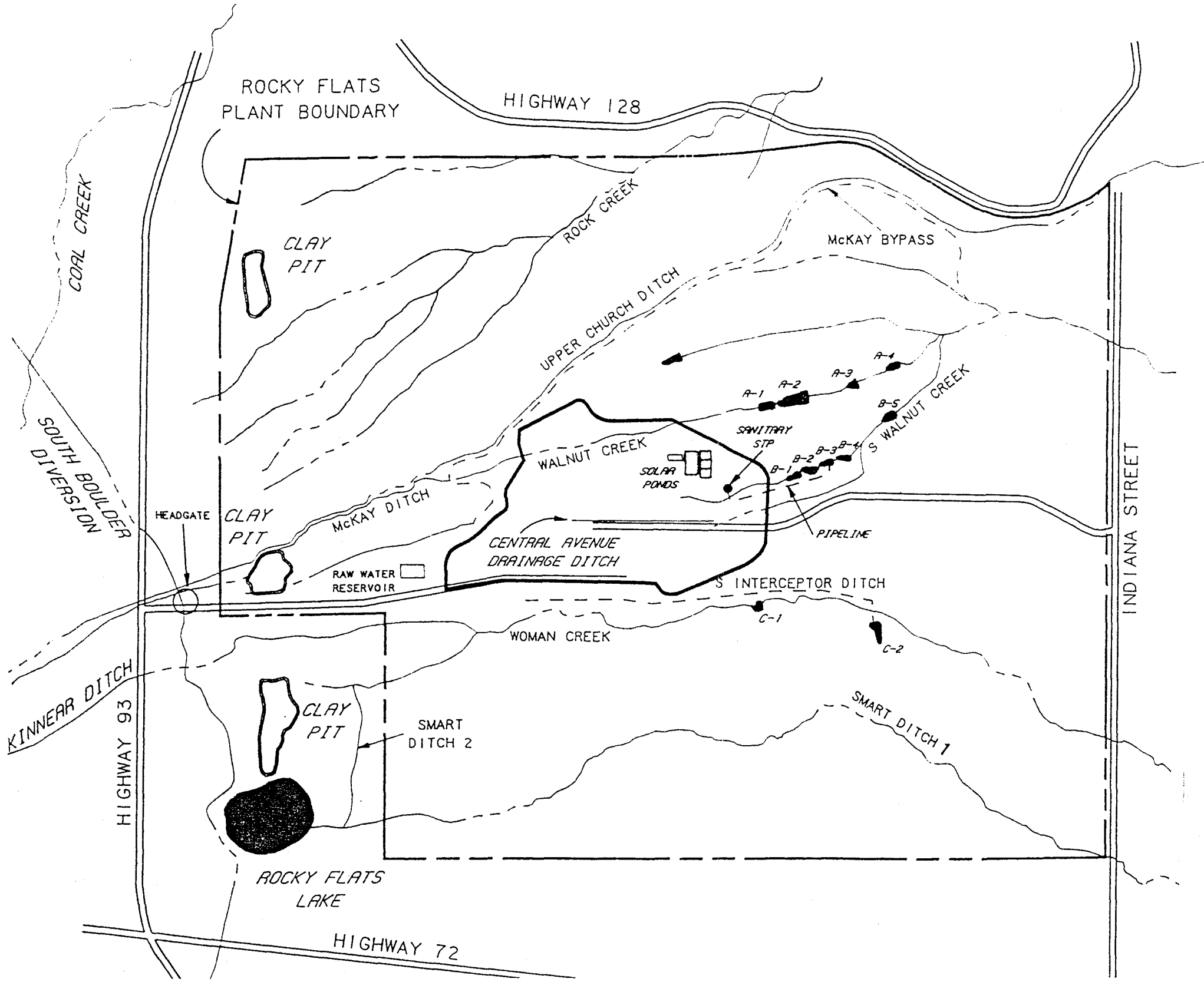
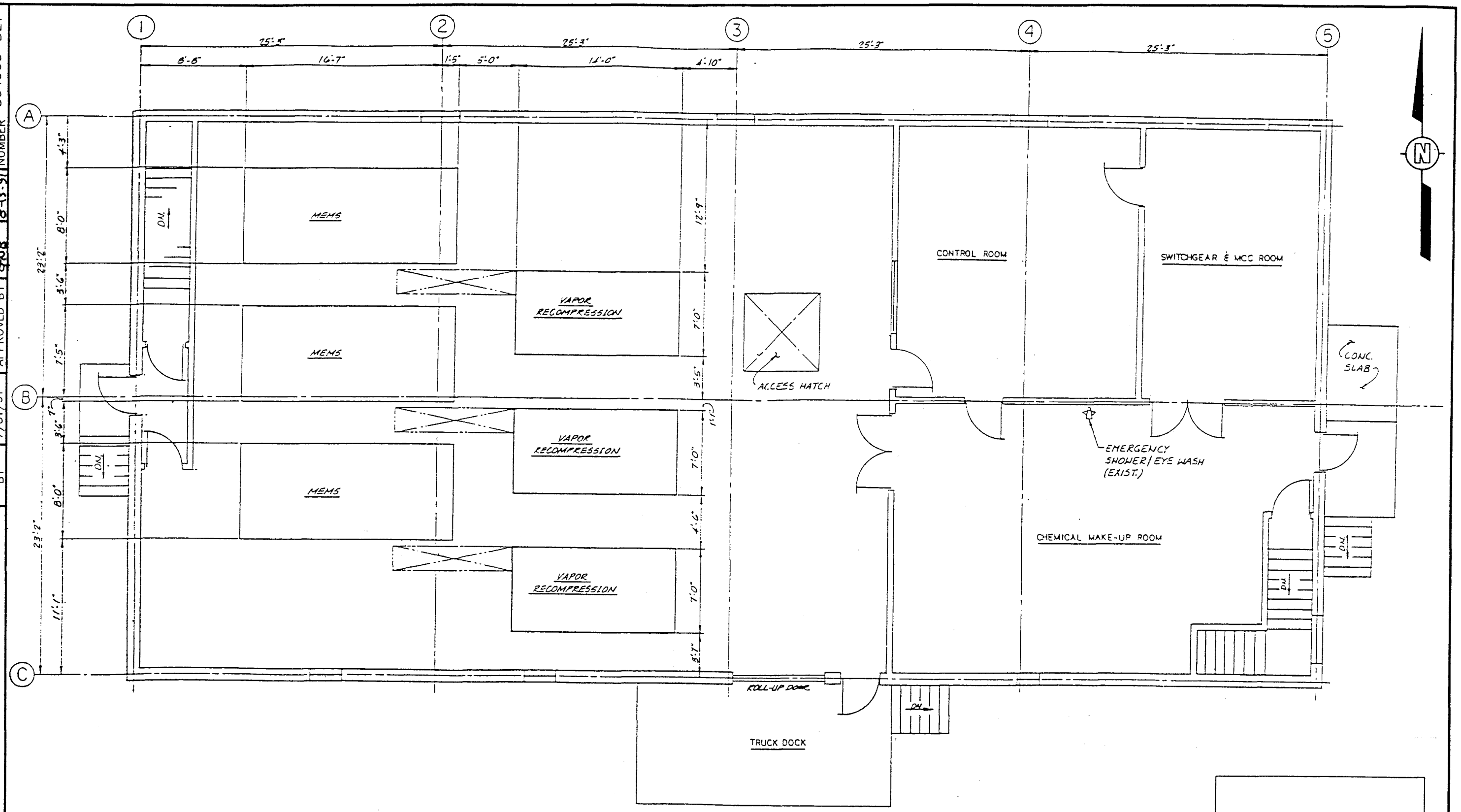


FIGURE 2-6

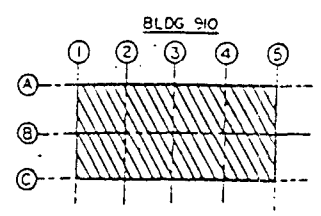
UPSTREAM AND ON-SITE SURFACE WATER FEATURES

SOURCE: DRAFT ROCKY FLATS SURFACE WATER MANAGEMENT PLAN, MARCH 1991.

DRAWN BY	RITA HYNA	CHECKED BY	GJB	8-2-24	DRAWING NUMBER	304903-B21
	7/31/91	APPROVED BY	GJB	8-13-91		



PLAN
F.U. FLOOR EL. 5775.6



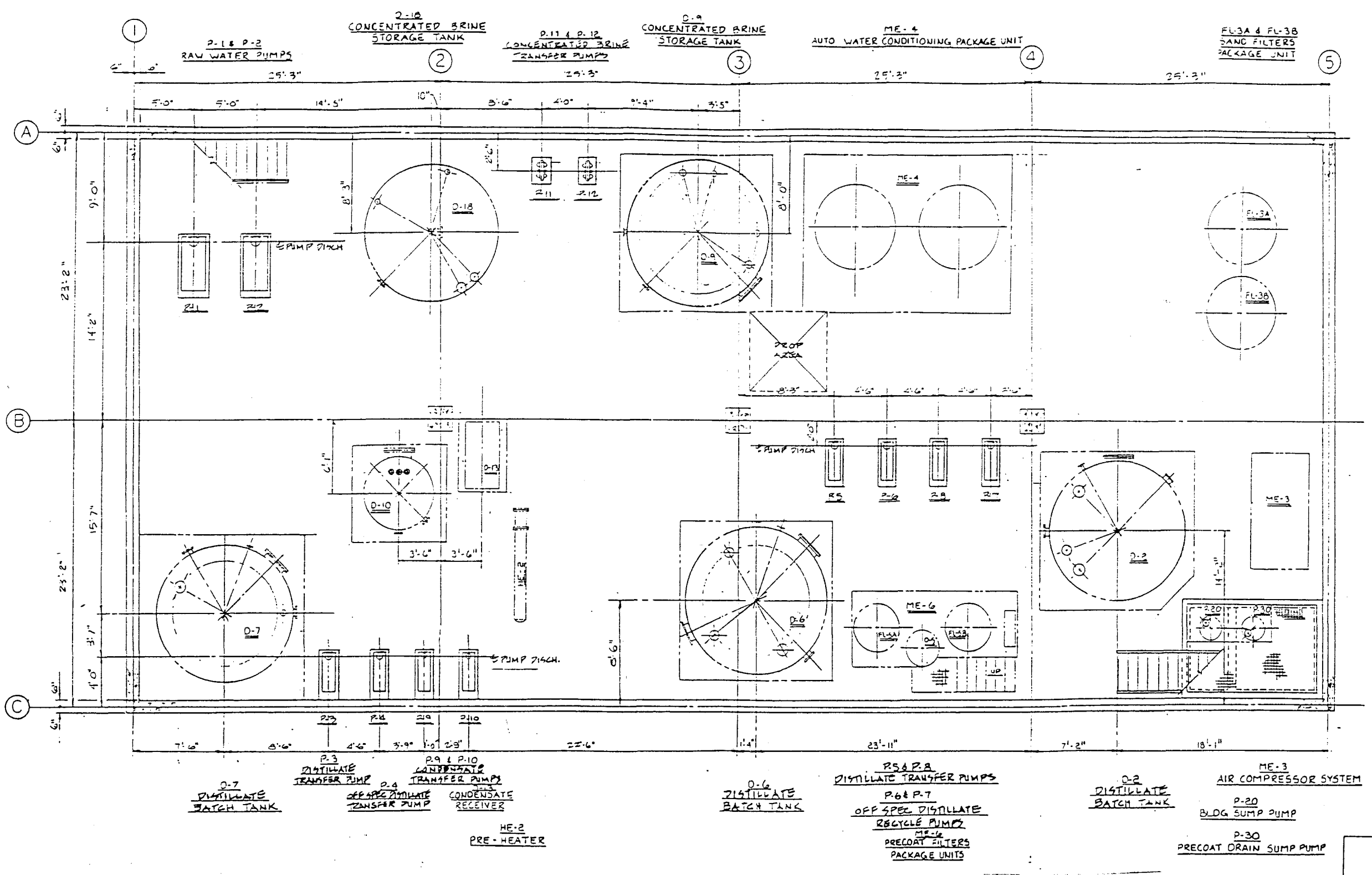
KEY PLAN
SCALE: NONE

FIGURE 3-1

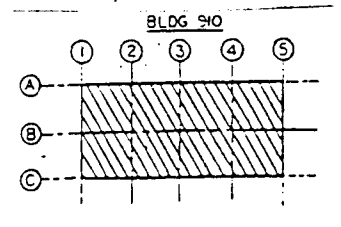
MAIN FLOOR BUILDING 910

REFERENCE: ROCKY FLATS PLANT, SOLAR POND CLEANUP/AIP, 1ST FLOOR EQUIPMENT LAYOUT, DRAWING #D39365-404A, 12/4/90.

DRAWN BY	RITA HYNA	CHECKED BY	GNB	8-2-91	DRAWING NUMBER 304903-B22
	7/31/91	APPROVED BY	GNB	8-13-91	



PLAN
H.P. FIN FLOOR EL 5960'0"



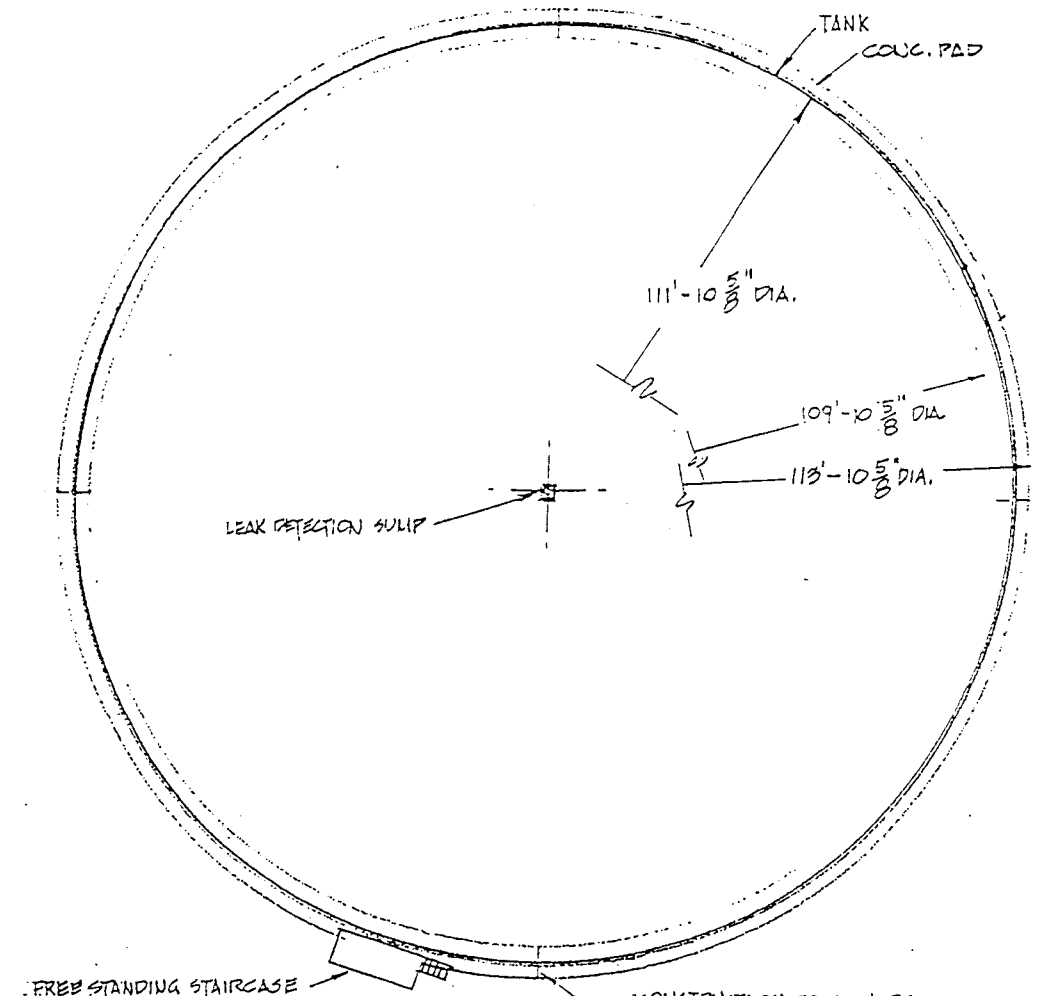
KEY PLAN
SCALE: NONE

FIGURE 3-2

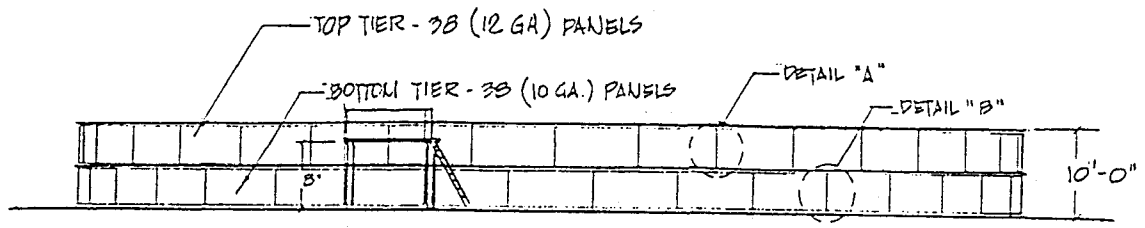
LOWER LEVEL BUILDING 910

REFERENCE: ROCKY FLATS PLANT,
SOLAR POND CLEANUP/AIP,
BASEMENT FLOOR EQUIPMENT LAYOUT,
DRAWING #D39365-405A, 11/29/90.

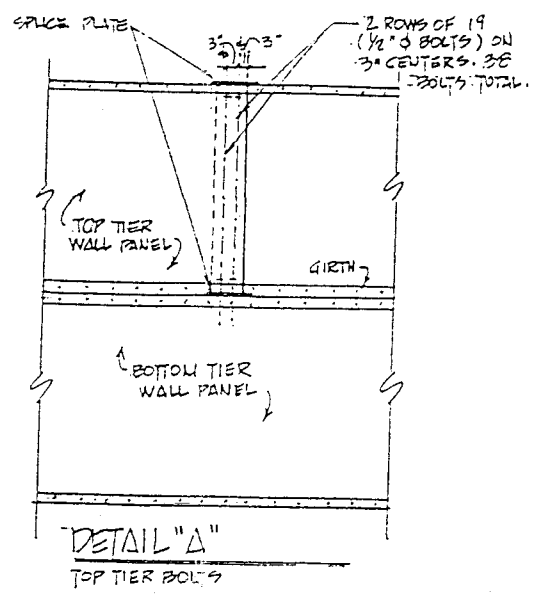
DRAWN BY	RITA HYNA	CHECKED BY	GJR	8-2-91	DRAWING NUMBER	304903-B19
	7/31/91	APPROVED BY	GJR	8-15-91		



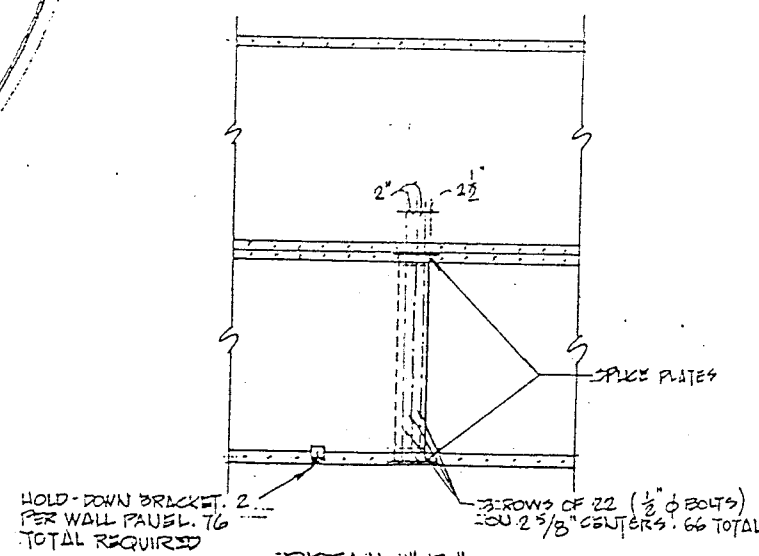
PLAN (NOT TO SCALE)



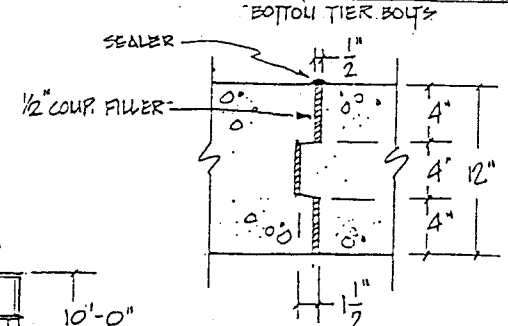
ELEVATION (NOT TO SCALE)



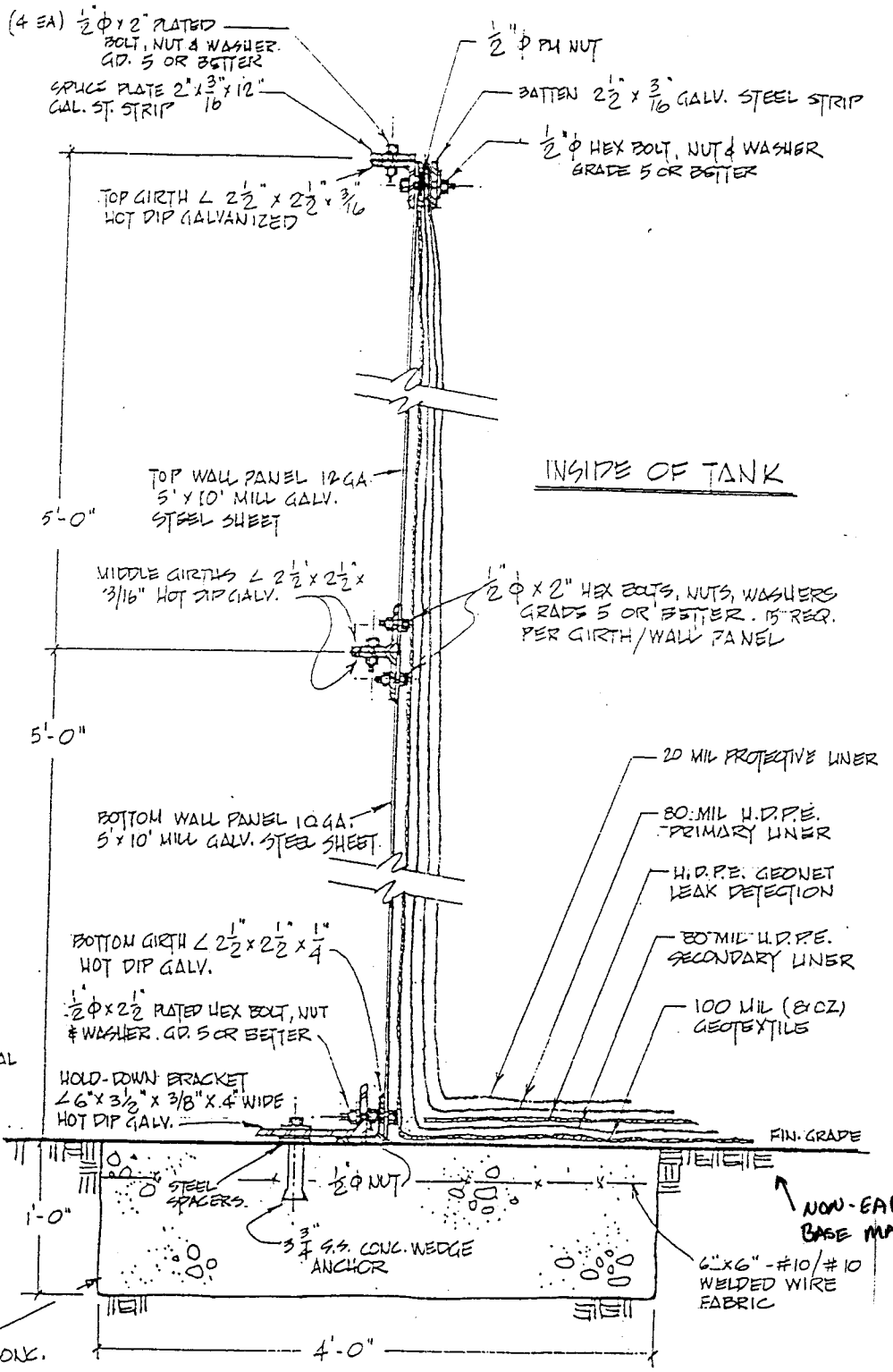
DETAIL "A"
TOP TIER BOLTS



DETAIL "B"
BOTTOM TIER BOLTS



TYPICAL CONSTR. JOINT



TYPICAL SECT. (NOT TO SCALE)

FIGURE 3-5

TYPICAL TANK CONSTRUCTION

REFERENCE: MODUTANK INC.,
500,000 GAL. MODULAR WATER STORAGE TANK IN ACCORDANCE WITH ROCKY FLANTS PLANT SPEC. NO. 986819-01 DRAWING, JULY 1991.

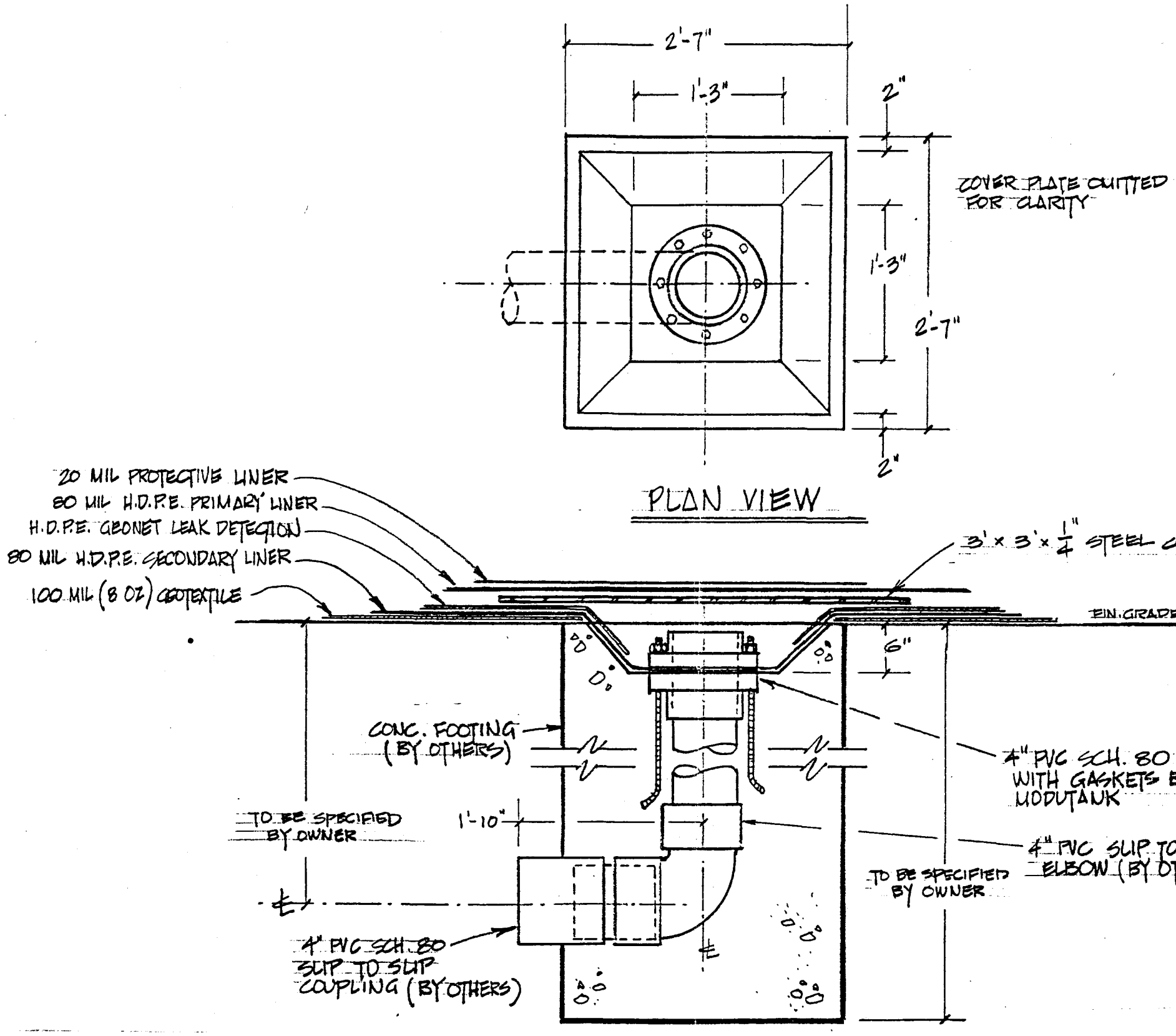


FIGURE 3-5 (cont.)

TYPICAL TANK SUMP CONSTRUCTION